

### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Glencoe Mathematics: Applications and Connections, Course 1		
Author:	Collins, et al.	Copyright:	2001
ISBN:	0078228662	Course/Content Area:	6-8 Math
Intended Grade or Level:	6-8	Readability Level:	6.3 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	45.99

#### FEATURES\*

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Content

*Glencoe Mathematics: Applications and Connections, Course 1* is designed to smooth the path to algebra and geometry by creating a program that has about the same amount of new material in Grade 6, Grade 7, and Grade 8 as well as in *Glencoe Algebra 1*. Based on the key findings from TIMSS, *Mathematics: Applications and Connections* meets or exceeds national and international standards in grades 6-8. It emphasizes geometry, measurement, and proportionality as well as algebra, fractions, and statistics. *Course 1* lays the foundation of a structured scope and sequence throughout the *Mathematics: Applications and Connections* series that introduces, reinforces, and extends topics needed for success in algebra 1 and geometry. In addition to the Student Edition and wide variety of print ancillaries, a full-curriculum CD-ROM is available for *Course 1* in addition to an extensive array of correlated interactive practice and review activities at [www.math.glencoe.com](http://www.math.glencoe.com).

#### Student Experiences

*Glencoe: Mathematics Applications and Connections* prepares all students for success in algebra and geometry by introducing new concepts at the right time and in a variety of ways to meet the needs of all learners. In addition to more traditional instructional experiences, *Mathematics Applications and Connections* encourages students to **do** mathematics. Hands-On Labs give students hands-on experience, with a partner or group, in discovering mathematical concepts for themselves and taking responsibility for their own learning. *Glencoe: Mathematics Applications and Connections* offers an abundance of opportunities for students to learn cooperatively as well as individually. Practical problem solving is linked to students' real-life interests. Chapter Projects and Interdisciplinary Investigations enable students to become more deeply engaged in a problem situation. Students are given multiple opportunities to utilize the world of technology in studying and exploring mathematics. Internet Connections, Technology Labs and Mini-Labs, CD-ROM programs, and Videoquizzes all contribute to student experiences in using technology to apply mathematics and solve problems.

#### Assessment

The assessment tools built into *Glencoe Mathematics: Applications and Connections, Course 1* are designed to assess traditional basic skills as well as students' ability to organize information and apply previously learned information to solve problems. The curriculum alignment to Kentucky Core Content Standards promotes the ability of students to perform well on CATS tests and other standardized tests. Forms of self-assessment in the Student Edition include Mixed Review, Standardized Test Practice, Math Journals, Chapter Projects, Mid-Chapter Self Tests, and a practice Chapter Test. The accompanying black-line assessment masters in the Fast File Chapter Resources include three Multiple Choice Tests and three Free-Response Tests designed for varying levels of student ability. There is also a performance assessment and scoring guide, Standardized Test Practice, Cumulative Review, four quizzes, and a Mid-Chapter Test. The accompanying workbook *Preparing for the 8th Grade CATS* provides practice tied to the Kentucky CATS tests for mathematics. The TestCheck and Worksheet Builder software contains correlations to the Kentucky Core Content Standards and allows teachers to easily create assessments for individual lessons and Chapters linked to Kentucky Core Content

## Program Description/Textbook or Print Instructional Material

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### Glencoe Mathematics: Applications and Connections, Course 1 ©2001 (continued)

#### **Organization**

*Mathematics: Applications and Connections, Course 1* is composed of 13 chapters, each having 5 to 10 lessons. Each lesson follows a straightforward format. The lesson begins with *What you'll learn* and *When am I ever going to use this?*, which provides the objective of the lesson and a relevant benefit of learning the concept. Completely worked-out examples with clear explanations parallel the exercises in the Guided Practice and Practice sections. Check for Understanding exercises are designed to be completed in class. In the Communicating Mathematics exercises, students define, describe, and explain mathematical concepts. The Guided Practice exercises present a representative sample of the exercises in the Practice exercises. The Practice exercises and Applications and Problem Solving exercises provide plenty of skill practice as well as practice in applying algebraic concepts to both real-life and mathematical problem situations. Each lesson contains a Critical Thinking exercise in which students explain, justify, and prove mathematical relationships. The Mixed Review exercises are spiraled and cumulative. Each Mixed Review section contains a Standardized Test Practice question. Each chapter concludes with a comprehensive Study Guide and Assessment review section. The back of the Student Edition contains a Skills Practice section, Extra Practice for each lesson, Chapter Tests, a Graphing Calculator and Spreadsheet tutorial, and English and Spanish glossaries.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher's Classroom Resources, Interactive Teacher Edition, Key Concepts: Math Background & Teaching Notes, Transition Booklet, Hot Words Hot Topics TE, State Test Prep Workbook Grade 6 TE, State Test Practice Transparencies Grade 6, State Test Prep CD-ROM Middle School, KY TestCheck & Worksheet Builder CD-ROM, MathPASS Tutorial CD-ROM, KY Interactive Lesson Planner, KY Guide to Daily Intervention, KY CATS Prep CD-ROM, Using the Internet in the Math Classroom, Reading & Writing in the Math Classroom, Teaching Math with Foldables by Dinah Zike, MindJogger Videoquizzes, Vocabulary Puzzlemaker, Teaching Transparencies, 5-Minute Check Transparencies, Answer Key Transparencies, Multimedia Applications CD-ROM, Terra Nova Practice & Sample Test Workbook TE.

*Choice of 1 per Teacher:* Basic Skills: Reinforcement and Practice Binder, Hot Words Hot Topics Reference Set (10 SE's per teacher)

*Free, 1 per School:* Spanish Family Letters and Activities (upon request), Spanish Study Guide and Practice Workbook (upon request), Spanish Study Guide & Assessment (upon request), Spanish Parent & Student Study Guide Workbook (upon request), Pathways to Success: Scope & Sequence, Free Access to Glencoe Math Website/On-line Study Tools

*Choice of 2 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* Study Guide and Practice Workbook, State Test Prep Workbook Grade 6 SE, Terra Nova Practice & Sample Test Workbook SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### **Research Data**

*Glencoe: Mathematics Applications and Connections* is the product of ongoing classroom-oriented research that involves students, teachers, curriculum supervisors, administrators, parents, and college-level mathematics educators. Prior to publication of any Glencoe program, typical research activities include a review of educational research and recommendations made by groups such as NCTM; mail surveys of mathematics educators, discussion groups involving mathematics teachers, department heads, and supervisors; focus groups involving mathematics educators; face-to-face interviews with mathematics educators; telephone surveys of mathematics educators; in-depth analysis of manuscript by a wide range of reviewers and consultants; and field tests in which students and teachers use pre-publication manuscript in the classroom.

### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Glencoe Mathematics: Applications and Connections, Course 2		
Author:	Collins, et al.	Copyright:	2001
ISBN:	007822859X	Course/Content Area:	6-8 Math
Intended Grade or Level:	6-8	Readability Level:	6.7 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	47.97

#### FEATURES\*

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#### Content

*Glencoe Mathematics: Applications and Connections, Course 2* is designed to smooth the path to algebra and geometry by creating a program that has about the same amount of new material in Grade 6, Grade 7, and Grade 8 as well as in *Glencoe Algebra 1*. Based on the key findings from TIMSS, *Mathematics: Applications and Connections* meets or exceeds national and international standards in grades 6-8. It emphasizes geometry, measurement, and proportionality as well as algebra, fractions, and statistics. *Course 2* continues to develop the structured scope and sequence throughout the *Mathematics: Applications and Connections* series that introduces, reinforces, and extends topics needed for success in algebra 1 and geometry. In addition to the Student Edition and wide variety of print ancillaries, a full-curriculum CD-ROM is available for *Course 2* in addition to an extensive array of correlated interactive practice and review activities at [www.math.glencoe.com](http://www.math.glencoe.com).

#### Student Experiences

*Glencoe: Mathematics Applications and Connections* prepares all students for success in algebra and geometry by introducing new concepts at the right time and in ways to meet the needs of all learners. In addition to more traditional instructional experiences, *Mathematics Applications and Connections* encourages students to do mathematics. Hands-On Labs give students hands-on experience, with a partner or group, in discovering mathematical concepts. *Glencoe: Mathematics Applications and Connections* offers multiple opportunities for students to learn cooperatively as well as individually. Practical problem solving is linked to students' real-life interests. Chapter Projects and Interdisciplinary Investigations enable students to become more deeply engaged in a problem situation. Students are given multiple opportunities to utilize the world of technology in studying and exploring mathematics. Internet Connections, Technology Labs and Mini-Labs, CD-ROM programs, and Videoquizzes all contribute to student experiences in using technology to apply mathematics and solve problems.

#### Assessment

The assessment tools built into *Glencoe Mathematics: Applications and Connections, Course 2* are designed to assess traditional basic skills as well as the ability to apply previously learned information to solve problems. The curriculum alignment to Kentucky Core Content Standards promotes the ability of students to perform well on CATS tests and other standardized tests. Forms of self-assessment in the Student Edition include Mixed Review, Standardized Test Practice, Math Journals, Chapter Projects, Mid-Chapter Self Tests, and a practice Chapter Test. The accompanying black-line assessment masters in the Fast File Chapter Resources include three Multiple Choice Tests and three Free-Response Tests designed for varying levels of student ability. There is also a performance assessment and scoring guide, Standardized Test Practice, Cumulative Review, four quizzes, and a Mid-Chapter Test. The accompanying workbook *Preparing for the 8th Grade CATS* provides practice tied to the Kentucky CATS tests for mathematics.

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### Glencoe Mathematics: Applications and Connections, Course 2 ©2001 (continued)

#### **Organization**

*Mathematics: Applications and Connections, Course 2* is composed of 13 chapters, each having 5 to 10 lessons. Each lesson follows a straightforward format. The lesson begins with *What you'll learn* and *When am I ever going to use this?*, which provides the objective of the lesson and a relevant benefit of learning the concept. Completely worked-out examples with clear explanations parallel the exercises in the Guided Practice and Practice sections. Check for Understanding exercises are designed to be completed in class. In the Communicating Mathematics exercises, students define, describe, and explain mathematical concepts. The Guided Practice exercises present a representative sample of the exercises in the Practice exercises. The Practice exercises and Applications and Problem Solving exercises provide plenty of skill practice as well as practice in applying algebraic concepts to both real-life and mathematical problem situations. Each lesson contains a Critical Thinking exercise in which students explain, justify, and prove mathematical relationships. The Mixed Review exercises are spiraled and cumulative. Each Mixed Review section contains a Standardized Test Practice question. Each chapter concludes with a comprehensive Study Guide and Assessment review section. The back of the Student Edition contains a Skills Practice section, Extra Practice for each lesson, Chapter Tests, a Graphing Calculator and Spreadsheet tutorial, and English and Spanish glossaries.

#### **Resource Materials**

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*Choice of 1 per Teacher:* Basic Skills: Reinforcement and Practice Binder, Hot Words Hot Topics Reference Set (10 SE's per teacher)

*Free, 1 per School:* Spanish Family Letters and Activities (upon request), Spanish Study Guide and Practice Workbook (upon request), Spanish Study Guide & Assessment (upon request), Spanish Parent & Student Study Guide Workbook (upon request), Pathways to Success: Scope & Sequence, Free Access to Glencoe Math Website/On-line Study Tools

*Choice of 2 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* Study Guide and Practice Workbook, State Test Prep Workbook Grade 7 SE, Terra Nova Practice & Sample Test Workbook SE, KY CATS Math Practice & Sample Test Wbk For Gr 8 Assessment SE

- **Available Ancillary Materials**

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Kentucky, 2002

### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Glencoe Mathematics: Applications and Connections, Course 3		
Author:	Collins, et al.	Copyright:	2001
ISBN:	0078228522	Course/Content Area:	6-8 Math
Intended Grade or Level:	6-8	Readability Level:	7.3 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	47.97

#### FEATURES\*

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#### Content

*Glencoe Mathematics: Applications and Connections, Course 3* is designed to smooth the path to algebra and geometry by creating a program that has about the same amount of new material in Grade 6, Grade 7, and Grade 8 as well as in *Glencoe Algebra 1*. Based on the key findings from TIMSS, *Mathematics: Applications and Connections* meets or exceeds national and international standards in grades 6-8. It emphasizes geometry, measurement, and proportionality as well as algebra, fractions, and statistics. *Course 1* lays the foundation of a structured scope and sequence throughout the *Mathematics: Applications and Connections* series that introduces, reinforces, and extends topics needed for success in algebra 1 and geometry. In addition to the Student Edition and wide variety of print ancillaries, a full-curriculum CD-ROM is available for *Course 3* in addition to an extensive array of correlated interactive practice and review activities at [www.math.glencoe.com](http://www.math.glencoe.com).

#### Student Experiences

*Glencoe: Mathematics Applications and Connections* prepares all students for success in algebra and geometry by introducing new concepts at the right time and in a variety of ways to meet the needs of all learners. In addition to more traditional instructional experiences, *Mathematics Applications and Connections* encourages students to do mathematics. Hands-On Labs give students hands-on experience, with a partner or group, in discovering mathematical concepts for themselves and taking responsibility for their own learning. *Glencoe: Mathematics Applications and Connections* offers an abundance of opportunities for students to learn cooperatively as well as individually. Practical problem solving is linked to students' real-life interests. Chapter Projects and Interdisciplinary Investigations enable students to become more deeply engaged in a problem situation. Students are given multiple opportunities to utilize the world of technology in studying and exploring mathematics. Internet Connections, Technology Labs and Mini-Labs, CD-ROM programs, and Videoquizzes all contribute to student experiences in using technology to apply mathematics and solve problems.

#### Assessment

The assessment tools built into *Glencoe Mathematics: Applications and Connections, Course 3* are designed to assess traditional basic skills as well as the ability to apply previously learned information to solve problems. The curriculum alignment to Kentucky Core Content Standards promotes the ability of students to perform well on CATS tests and other standardized tests. Forms of self-assessment in the Student Edition include Mixed Review, Standardized Test Practice, Math Journals, Chapter Projects, Mid-Chapter Self Tests, and a practice Chapter Test. The accompanying black-line assessment masters in the Fast File Chapter Resources include three Multiple Choice Tests and three Free-Response Tests designed for varying levels of student ability. There is also a performance assessment and scoring guide, Standardized Test Practice, Cumulative Review, four quizzes, and a Mid-Chapter Test. The accompanying workbook *Preparing for the 8th Grade CATS* provides practice tied to the Kentucky CATS tests for mathematics.

## Program Description/Textbook or Print Instructional Material

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### **Glencoe Mathematics: Applications and Connections, Course 3 ©2001 (continued)**

#### **Organization**

*Mathematics: Applications and Connections, Course 3* is composed of 13 chapters, each having 6 to 10 lessons. Each lesson follows a straightforward format. The lesson begins with *What you'll learn* and *When am I ever going to use this?*, which provides the objective of the lesson and a relevant benefit of learning the concept. Completely worked-out examples with clear explanations parallel the exercises in the Guided Practice and Practice sections. Check for Understanding exercises are designed to be completed in class. In the Communicating Mathematics exercises, students define, describe, and explain mathematical concepts. The Guided Practice exercises present a representative sample of the exercises in the Practice exercises. The Practice exercises and Applications and Problem Solving exercises provide plenty of skill practice as well as practice in applying algebraic concepts to both real-life and mathematical problem situations. Each lesson contains a Critical Thinking exercise in which students explain, justify, and prove mathematical relationships. The Mixed Review exercises are spiraled and cumulative. Each Mixed Review section contains a Standardized Test Practice question. Each chapter concludes with a comprehensive Study Guide and Assessment review section. The back of the Student Edition contains a Skills Practice section, Extra Practice for each lesson, Chapter Tests, a Graphing Calculator and Spreadsheet tutorial, and English and Spanish glossaries.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher's Classroom Resources, Interactive Teacher Edition, Key Concepts: Math Background & Teaching Notes, Transition Booklet, Hot Words Hot Topics TE, State Test Practice Workbook Grade 8 TE, State Test Practice Transparencies Grade 8, State Test Prep CD-ROM Middle School, KY TestCheck & Worksheet Builder CD-ROM, MathPASS Tutorial CD-ROM, KY Interactive Lesson Planner, KY Guide to Daily Intervention, KY CATS Prep CD-ROM, Using the Internet in the Math Classroom, Reading & Writing in the Math Classroom, Teaching Math with Foldables by Dinah Zike, MindJogger Videoquizzes, Vocabulary Puzzlemaker, Teaching Transparencies, 5-Minute Check Transparencies, Answer Key Transparencies, Multimedia Applications CD-ROM, KY CATS Math Practice & Sample Test Wbk For Gr 8 Assessment TE

*Choice of 1 per Teacher:* Basic Skills: Reinforcement and Practice Binder, Hot Words Hot Topics Reference Set (10 SE's per teacher)

*Free, 1 per School:* Spanish Family Letters and Activities (upon request), Spanish Study Guide and Practice Workbook (upon request), Spanish Study Guide & Assessment (upon request), Spanish Parent & Student Study Guide Workbook (upon request), Pathways to Success: Scope & Sequence, Free Access to Glencoe Math Website/On-line Study Tools

*Choice of 2 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* Study Guide and Practice Workbook, State Test Prep Workbook, Grade 8 SE, KY CATS Math Practice & Sample Test Wbk For Gr 8 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

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*Glencoe: Mathematics Applications and Connections* is the product of ongoing classroom-oriented research that involves students, teachers, curriculum supervisors, administrators, parents, and college-level mathematics educators. Prior to publication of any Glencoe program, typical research activities include a review of educational research and recommendations made by groups such as NCTM; mail surveys of mathematics educators, discussion groups involving mathematics teachers, department heads, and supervisors; focus groups involving mathematics educators; face-to-face interviews with mathematics educators; telephone surveys of mathematics educators; in-depth analysis of manuscript by a wide range of reviewers and consultants; and field tests in which students and teachers use pre-publication manuscript in the classroom.

### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	MathScape: Seeing and Thinking Mathematically, Grade 6		
Author:	Education Development Center, Inc.	Copyright:	1998
ISBN:	0762205210	Course/Content Area:	6-8 Math
Intended Grade or Level:	6-8	Readability Level:	6.7 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	38.97

#### FEATURES\*

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#### Content

Most mathematical concepts are first introduced in an informal way - students work with manipulatives, describe situations using their own words, and come up with their own intuitive methods to build a conceptual foundation. Later on, these concepts become formalized as students become familiar with standard approaches. *MathScape* focuses on four major content strands: *number and operations*, *algebra and functions*, *geometry and measurement*, and *probability and statistics*.

#### Student Experiences

A mathematically powerful student is a skillful thinker who can flexibly and creatively connect pieces of content knowledge to produce new mathematical results. The *MathScape* curriculum aims to make students proficient in the processes of seeking patterns and relationships; inventing; experimenting; trying alternative representations and strategies; abstracting essential aspects of situations; proof/conjecture; and communicating mathematically.

The *MathScape* materials infuse basic skills into the curriculum in several different ways. Many opportunities for practicing basic skills are embedded in the mathematical investigations. Students often must compute, use measuring tools, identify shapes, and use other basic skills as part of a larger mathematical activity which provides a context for the use of those skills. The homework that goes along with each lesson contains problems that provide practice in computational skills and other basic skills such as reading charts and tables and measuring, identifying, and drawing geometric figures. The materials emphasize understanding *why* algorithms work rather than simply memorizing steps of the algorithms. The program's supplemental resource book, *Math User's Handbook: Hot Words, Hot Topics*, provides support for students who need extra help with basic skills.

#### Assessment

**Pre-assessment:** Each unit begins with a pre-assessment activity.

**Day-to-day assessment:** For each lesson, the teacher guide provides a list of "What to look for" questions that help teachers gauge how well students are understanding concepts in the lesson. **Embedded assessments:** Each phase (set of 3-4 lessons) contains an embedded assessment task designed to give students the opportunity to demonstrate what they learned in the phase. **Skill Quizzes:** For each phase, teachers can assess their students skill development by using the skill quiz. **Student self-assessment:** Because of the importance of making expectations clear to students, the teacher guide contains reproducibles that clearly outline the assessment criteria for the embedded assessment tasks.

## Program Description/Textbook or Print Instructional Material

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### **MathScape: Seeing and Thinking Mathematically, Grade 6 ©1998 (continued)**

#### **Organization**

*MathScape* is made up of 21 units -- 7 at each grade level. Each unit is a coherent set of 12 lessons focusing on one or more of the four mathematical content strands: algebra, number, geometry & measurement, and probability & statistics. These 12 lessons are divided into three or four "phases," each of which has a particular mathematical focus.

The main component of each lesson is a hands-on investigation in which students explore mathematical concepts. Students often share and compare their approaches in group and class discussions. The final component of every lesson is a reflection piece in which students write about or discuss the mathematics they have been studying.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Print Program, Overhead Manipulative Resources, Hot Words Hot Topics Reference Set (10 SE's per teacher), State Test Practice Transparencies Grade 6, State Test Prep CD-ROM Middle School, KY CATS Prep CD-ROM, Reading & Writing in the Math Classroom, Basic Skills: Reinforcement and Practice Binder, MathPASS Tutorial CD-ROM, Teaching Math with Foldables by Dinah Zike, Using the Internet in the Math Classroom

*Choice of 1 per Teacher:* State Test Prep Workbook Grade 6 TE, Terra Nova Practice & Sample Test Workbook TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* State Test Prep Workbook Grade 6 SE, Terra Nova Practice & Sample Test Workbook SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

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#### **Research Data**

The studies used in evaluation show that students using MathScape either continue to perform as well as, or better than, they performed with their previous curricula. This observation has been made for both performance assessments and standardized state-administered tests. Two studies in California found that student scores improved after intensive professional development of teachers.



### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	MathScape: Seeing and Thinking Mathematically, Grade 7		
Author:	Education Development Center, Inc.	Copyright:	1998
ISBN:	0762205229	Course/Content Area:	6-8 Math
Intended Grade or Level:	6-8	Readability Level:	7.0 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	38.97

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The *MathScape* materials infuse basic skills into the curriculum in several different ways. Many opportunities for practicing basic skills are embedded in the mathematical investigations. Students often must compute, use measuring tools, identify shapes, and use other basic skills as part of a larger mathematical activity which provides a context for the use of those skills. The homework that goes along with each lesson contains problems that provide practice in computational skills and other basic skills such as reading charts and tables and measuring, identifying, and drawing geometric figures. The materials emphasize understanding *why* algorithms work rather than simply memorizing steps of the algorithms. The program's supplemental resource book, *Math User's Handbook: Hot Words, Hot Topics*, provides support for students who need extra help with basic skills.

#### Assessment

**Pre-assessment:** Each unit begins with a pre-assessment activity.

**Day-to-day assessment:** For each lesson, the teacher guide provides a list of "What to look for" questions that help teachers gauge how well students are understanding concepts in the lesson. **Embedded assessments:** Each phase (set of 3-4 lessons) contains an embedded assessment task designed to give students the opportunity to demonstrate what they learned in the phase. **Skill Quizzes:** For each phase, teachers can assess their students skill development by using the skill quiz. **Student self-assessment:** Because of the importance of making expectations clear to students, the teacher guide contains reproducibles that clearly outline the assessment criteria for the embedded assessment tasks.

## Program Description/Textbook or Print Instructional Material

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### **MathScape: Seeing and Thinking Mathematically, Grade 7 ©1998 (continued)**

#### **Organization**

*MathScape* is made up of 21 units -- 7 at each grade level. Each unit is a coherent set of 12 lessons focusing on one or more of the four mathematical content strands: algebra, number, geometry & measurement, and probability & statistics. These 12 lessons are divided into three or four "phases," each of which has a particular mathematical focus.

The main component of each lesson is a hands-on investigation in which students explore mathematical concepts. Students often share and compare their approaches in group and class discussions. The final component of every lesson is a reflection piece in which students write about or discuss the mathematics they have been studying.

#### **Resource Materials**

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Title:	MathScape: Seeing and Thinking Mathematically, Grade 8		
Author:	Education Development Center, Inc.	Copyright:	1998
ISBN:	0762205237	Course/Content Area:	6-8 Math
Intended Grade or Level:	6-8	Readability Level:	8.4 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	38.97

#### FEATURES\*

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Content

Most mathematical concepts are first introduced in an informal way - students work with manipulatives, describe situations using their own words, and come up with their own intuitive methods to build a conceptual foundation. Later on, these concepts become formalized as students become familiar with standard approaches. *MathScape* focuses on four major content strands: *number and operations*, *algebra and functions*, *geometry and measurement*, and *probability and statistics*.

#### Student Experiences

A mathematically powerful student is a skillful thinker who can flexibly and creatively connect pieces of content knowledge to produce new mathematical results. The *MathScape* curriculum aims to make students proficient in the processes of seeking patterns and relationships; inventing; experimenting; trying alternative representations and strategies; abstracting essential aspects of situations; proof/conjecture; and communicating mathematically.

The *MathScape* materials infuse basic skills into the curriculum in several different ways. Many opportunities for practicing basic skills are embedded in the mathematical investigations. Students often must compute, use measuring tools, identify shapes, and use other basic skills as part of a larger mathematical activity which provides a context for the use of those skills. The homework that goes along with each lesson contains problems that provide practice in computational skills and other basic skills such as reading charts and tables and measuring, identifying, and drawing geometric figures. The materials emphasize understanding *why* algorithms work rather than simply memorizing steps of the algorithms. The program's supplemental resource book, *Math User's Handbook: Hot Words, Hot Topics*, provides support for students who need extra help with basic skills.

#### Assessment

**Pre-assessment:** Each unit begins with a pre-assessment activity.

**Day-to-day assessment:** For each lesson, the teacher guide provides a list of "What to look for" questions that help teachers gauge how well students are understanding concepts in the lesson. **Embedded assessments:** Each phase (set of 3-4 lessons) contains an embedded assessment task designed to give students the opportunity to demonstrate what they learned in the phase. **Skill Quizzes:** For each phase, teachers can assess their students skill development by using the skill quiz. **Student self-assessment:** Because of the importance of making expectations clear to students, the teacher guide contains reproducibles that clearly outline the assessment criteria for the embedded assessment tasks.

## Program Description/Textbook or Print Instructional Material

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**MathScape: Seeing and Thinking Mathematically, Grade 8 ©1998** (continued)

### **Organization**

*MathScape* is made up of 21 units -- 7 at each grade level. Each unit is a coherent set of 12 lessons focusing on one or more of the four mathematical content strands: algebra, number, geometry & measurement, and probability & statistics. These 12 lessons are divided into three or four "phases," each of which has a particular mathematical focus.

The main component of each lesson is a hands-on investigation in which students explore mathematical concepts. Students often share and compare their approaches in group and class discussions. The final component of every lesson is a reflection piece in which students write about or discuss the mathematics they have been studying.

### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Print Program, Overhead Manipulative Resources, Hot Words Hot Topics Reference Set (10 SE's per teacher), State Test Practice Transparencies Grade 8, State Test Prep CD-ROM Middle School, KY CATS Prep CD-ROM, Reading & Writing in the Math Classroom, Basic Skills: Reinforcement and Practice Binder, MathPASS Tutorial CD-ROM, Teaching Math with Foldables by Dinah Zike, Using the Internet in the Math Classroom

*Choice of 1 per Teacher:* State Test Practice Workbook Grade 8 TE, KY CATS Math Practice & Sample Test Wbk For Gr 8 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* State Test Prep Workbook Grade 8 SE, KY CATS Math Practice & Sample Test Wbk For Gr 8 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### **Research Data**

The studies used in evaluation show that students using MathScape either continue to perform as well as, or better than, they performed with their previous curricula. This observation has been made for both performance assessments and standardized state-administered tests. Two studies in California found that student scores improved after intensive professional development of teachers.

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u><a href="http://www.glencoe.com">http://www.glencoe.com</a></u>
<b>Title:</b>	<u><b>Impact Mathematics: Algebra and More for the Middle Grades, Course 1</b></u>		
<b>Author:</b>	<u>Education Development Center, Inc.</u>	<b>Copyright:</b>	<u>2002</u>
<b>ISBN:</b>	<u>157039850X</u>	<b>Course/Content Area:</b>	<u>6-8 Math</u>
<b>Intended Grade or Level:</b>	<u>6-9</u>	<b>Readability Level:</b>	<u>6.8 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>47.97</u>

**FEATURES\***

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

**Content**

*Impact Mathematics* is a middle school mathematics curriculum that includes a full year of algebra by the end of grade 8. Based on Access to Algebra, materials developed in Australia, the curriculum is rooted in principles of active learning and includes geometry, statistics, probability, number sense, and algebra. It is expected that students will have access to scientific calculators. Graphing calculators are used in grades 7 and 8.

**Student Experiences**

Once taught primarily to college-bound students, algebra is now recognized as a critical "gateway" course for all students. Algebra is a powerful tool of symbolic thought, one that reduces relationships to their essentials. The capacity for such abstract thought is common to all people from early childhood on. A child understands, for instance, that his or her older sibling will always be older, and always by the same number of years - a relationship that could be expressed symbolically as  $x = y + n$ , where  $n$  is the difference in years between ages  $x$  and  $y$ .

Most students do develop strong algebraic ideas in elementary school, but learning to express them formally, in algebraic language, has traditionally waited for the 9th grade in the United States. *Impact Mathematics* capitalizes on students' innate capacity for abstraction and weaves a full year of algebra across the three years of middle school, thereby making room for yet higher math in high school curricula.

**Assessment**

The assessment tools in *Impact Mathematics* are broad. They encompass the processes of problem solving, reasoning, communication, connections, concepts, applications, representational strategies, and procedures. The flexibility and variety of assessment addresses the various ability levels and learning styles of students, as well as the instructional needs of teachers.

*Impact Mathematics* offers three types of formal assessment. Chapter Review and Self Assessment, Quick Quiz, Chapter and Quarterly Assessments, Semester Assessments, Refresher Worksheets

Impact Mathematics provides numerous opportunities to assess students informally as they work through investigations: Share & Summarize, On the Spot Assessment, Assessment Checklists

*Impact Mathematics* provides alternative assessment: In Your Own Words, Performance Assessments

## Program Description/Textbook or Print Instructional Material

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### Impact Mathematics: Algebra and More for the Middle Grades, Course 1 ©2002 (continued)

#### **Organization**

*Impact Math* is made up of 10 chapters at each grade level. Each chapter is broken down into several lessons, which are then broken down into investigations. Each chapter focuses on one of the four mathematical strands: algebra, geometry, number, and data/probability. The main component of each lesson is an investigation in which students explore mathematical concepts. Students often share and compare their approaches in group and class discussions. The final component of every lesson is a reflection piece in which students write about or discuss the mathematics they have been studying.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, State Test Practice Transparencies Grade 6, State Test Prep CD-ROM Middle School, KY CATS Prep CD-ROM, Reading & Writing in the Math Classroom, Basic Skills: Reinforcement and Practice Binder, MathPASS Tutorial CD-ROM, Teaching Math with Foldables by Dinah Zike, Hot Words Hot Topics TE, Hot Words Hot Topics Reference Set (10 SE's per teacher), Using the Internet in the Math Classroom

*Free, 1 per School:* Free Access to Glencoe Math Website/On-line Study Tools

*Choice of 1 per Teacher:* State Test Prep Workbook Grade 6 TE, Terra Nova Practice & Sample Test Workbook TE

*Choice of 1 per Student Edition Purchased, 1st year of Adoption only. Subsequent Years Upon Request:* State Test Prep Workbook Grade 6 SE, Terra Nova Practice & Sample Test Workbook SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### **Research Data**

During the development of *Impact Mathematics* extensive research, testing and piloting of the program was conducted to ensure the validity of the instructional approach. This research included: development discussions and planning with classroom teachers, development discussions and planning with experts in the content area, and on-site classroom observations. All assessment instruments for *Impact Mathematics* evaluate the learning outcomes, or objectives, and the variety of assessment instruments ensure that all learner outcomes will be measured.

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u>http://www.glencoe.com</u>
<b>Title:</b>	<u>Impact Mathematics: Algebra and More for the Middle Grades, Course 2</u>		
<b>Author:</b>	<u>Education Development Center, Inc.</u>	<b>Copyright:</b>	<u>2000</u>
<b>ISBN:</b>	<u>1570398550</u>	<b>Course/Content Area:</b>	<u>6-8 Math</u>
<b>Intended Grade or Level:</b>	<u>6-9</u>	<b>Readability Level:</b>	<u>7.0 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>47.97</u>

**FEATURES\***

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

**Content**

*Impact Mathematics* is a middle school mathematics curriculum that includes a full year of algebra by the end of grade 8. Based on Access to Algebra, materials developed in Australia, the curriculum is rooted in principles of active learning and includes geometry, statistics, probability, number sense, and algebra. It is expected that students will have access to scientific calculators. Graphing calculators are used in grades 7 and 8.

**Student Experiences**

Once taught primarily to college-bound students, algebra is now recognized as a critical "gateway" course for all students. Algebra is a powerful tool of symbolic thought, one that reduces relationships to their essentials. The capacity for such abstract thought is common to all people from early childhood on. A child understands, for instance, that his or her older sibling will always be older, and always by the same number of years - a relationship that could be expressed symbolically as  $x = y + n$ , where  $n$  is the difference in years between ages  $x$  and  $y$ .

Most students do develop strong algebraic ideas in elementary school, but learning to express them formally, in algebraic language, has traditionally waited for the 9th grade in the United States. *Impact Mathematics* capitalizes on students' innate capacity for abstraction and weaves a full year of algebra across the three years of middle school, thereby making room for yet higher math in high school curricula.

**Assessment**

The assessment tools in *Impact Mathematics* are broad. They encompass the processes of problem solving, reasoning, communication, connections, concepts, applications, representational strategies, and procedures. The flexibility and variety of assessment addresses the various ability levels and learning styles of students, as well as the instructional needs of teachers.

*Impact Mathematics* offers three types of formal assessment. Chapter Review and Self Assessment, Quick Quiz, Chapter and Quarterly Assessments, Semester Assessments, Refresher Worksheets

Impact Mathematics provides numerous opportunities to assess students informally as they work through investigations: Share & Summarize, On the Spot Assessment, Assessment Checklists

*Impact Mathematics* provides alternative assessment: In Your Own Words, Performance Assessments.

## Program Description/Textbook or Print Instructional Material

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### Impact Mathematics: Algebra and More for the Middle Grades, Course 2 ©2002 (continued)

#### **Organization**

*Impact Math* is made up of 10 chapters at each grade level. Each chapter is broken down into several lessons, which are then broken down into investigations. Each chapter focuses on one of the four mathematical strands: algebra, geometry, number, and data/probability. The main component of each lesson is an investigation in which students explore mathematical concepts. Students often share and compare their approaches in group and class discussions. The final component of every lesson is a reflection piece in which students write about or discuss the mathematics they have been studying.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, State Test Practice Transparencies Grade 7, State Test Prep CD-ROM Middle School, KY CATS Prep CD-ROM, Reading & Writing in the Math Classroom, MathPASS Tutorial CD-ROM, Teaching Math with Foldables by Dinah Zike, Hot Words Hot Topics TE, Hot Words Hot Topics Reference Set (10 SE's per teacher), Using the Internet in the Math Classroom

*Free, 1 per School:* Free Access to Glencoe Math Website/On-line Study Tools

*Choice of 1 per Teacher:* State Test Prep Workbook Grade 7 TE, Terra Nova Practice & Sample Test Workbook TE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of Adoption only. Subsequent Years Upon Request:* State Test Prep Workbook Grade 7 SE, Terra Nova Practice & Sample Test Workbook SE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### **Research Data**

During the development of *Impact Mathematics* extensive research, testing and piloting of the program was conducted to ensure the validity of the instructional approach. This research included: development discussions and planning with classroom teachers, development discussions and planning with experts in the content area, and on-site classroom observations. All assessment instruments for *Impact Mathematics* evaluate the learning outcomes, or objectives, and the variety of assessment instruments ensure that all learner outcomes will be measured.



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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u><a href="http://www.glencoe.com">http://www.glencoe.com</a></u>
<b>Title:</b>	<u><b>Impact Mathematics: Algebra and More for the Middle Grades, Course 3</b></u>		
<b>Author:</b>	<u>Education Development Center, Inc.</u>	<b>Copyright:</b>	<u>2000</u>
<b>ISBN:</b>	<u>0078272904</u>	<b>Course/Content Area:</b>	<u>6-8 Math</u>
<b>Intended Grade or Level:</b>	<u>6-9</u>	<b>Readability Level:</b>	<u>8.6 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>47.97</u>

**FEATURES\***

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**Content**

*Impact Mathematics* is a middle school mathematics curriculum that includes a full year of algebra by the end of grade 8. Based on Access to Algebra, materials developed in Australia, the curriculum is rooted in principles of active learning and includes geometry, statistics, probability, number sense, and algebra. It is expected that students will have access to scientific calculators. Graphing calculators are used in grades 7 and 8.

**Student Experiences**

Once taught primarily to college-bound students, algebra is now recognized as a critical "gateway" course for all students. Algebra is a powerful tool of symbolic thought, one that reduces relationships to their essentials. The capacity for such abstract thought is common to all people from early childhood on. A child understands, for instance, that his or her older sibling will always be older, and always by the same number of years - a relationship that could be expressed symbolically as  $x = y + n$ , where  $n$  is the difference in years between ages  $x$  and  $y$ .

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**Assessment**

The assessment tools in *Impact Mathematics* are broad. They encompass the processes of problem solving, reasoning, communication, connections, concepts, applications, representational strategies, and procedures. The flexibility and variety of assessment addresses the various ability levels and learning styles of students, as well as the instructional needs of teachers.

*Impact Mathematics* offers three types of formal assessment. Chapter Review and Self Assessment, Quick Quiz, Chapter and Quarterly Assessments, Semester Assessments, Refresher Worksheets

Impact Mathematics provides numerous opportunities to assess students informally as they work through investigations: Share & Summarize, On the Spot Assessment, Assessment Checklists

*Impact Mathematics* provides alternative assessment: In Your Own Words, Performance Assessments.

## Program Description/Textbook or Print Instructional Material

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### Impact Mathematics: Algebra and More for the Middle Grades, Course 3 ©2002 (continued)

#### Organization

*Impact Math* is made up of 10 chapters at each grade level. Each chapter is broken down into several lessons, which are then broken down into investigations. Each chapter focuses on one of the four mathematical strands: algebra, geometry, number, and data/probability. The main component of each lesson is an investigation in which students explore mathematical concepts. Students often share and compare their approaches in group and class discussions. The final component of every lesson is a reflection piece in which students write about or discuss the mathematics they have been studying.

#### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, State Test Practice Transparencies Grade 8, State Test Prep CD-ROM Middle School, KY CATS Prep CD-ROM, Reading & Writing in the Math Classroom, MathPASS Tutorial CD-ROM, Teaching Math with Foldables by Dinah Zike, Hot Words Hot Topics TE, Hot Words Hot Topics Reference Set (10 SE's per teacher), Using the Internet in the Math Classroom

*Free, 1 per School:* Free Access to Glencoe Math Website/On-line Study Tools

*Choice of 1 per Teacher:* State Test Practice Workbook Grade 8 TE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* State Test Prep Workbook Grade 8 SE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Research Data

During the development of *Impact Mathematics* extensive research, testing and piloting of the program was conducted to ensure the validity of the instructional approach. This research included: development discussions and planning with classroom teachers, development discussions and planning with experts in the content area, and on-site classroom observations. All assessment instruments for *Impact Mathematics* evaluate the learning outcomes, or objectives, and the variety of assessment instruments ensure that all learner outcomes will be measured.

**Program Description/Textbook or Print Instructional Material**

<b>Vendor:</b>	<b>Glencoe/McGraw-Hill</b>	<b>Web Address:</b>	<b><a href="http://www.glencoe.com">http://www.glencoe.com</a></b>
<b>Title:</b>	<b>Glencoe Pre-Algebra</b>		
<b>Author:</b>	<b>Price, et al</b>	<b>Copyright:</b>	<b>2003</b>
<b>ISBN:</b>	<b>0078252008</b>	<b>Course/Content Area:</b>	<b>Pre-Algebra</b>
<b>Intended Grade or Level:</b>	<b>7-10</b>	<b>Readability Level:</b>	<b>8.1 Dale Chall</b>
<b>List Price:</b>	<b>N/A</b>	<b>Lowest Wholesale Price:</b>	<b>50.97</b>

**FEATURES\***

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

**Content**

*Glencoe Pre-Algebra* meets the needs of both middle school and high school students enrolled in a pre-algebra course. It covers all of the Kentucky Core Content Standards for Pre-Algebra. The text is organized by units to lend depth and cohesiveness to the curriculum. The major strands of mathematics - Number and Operations, Algebra, Geometry, Measurement, and Data Analysis and Probability - are incorporated where appropriate. The full content is also available in interactive CD-ROM format. Online versions of the student edition are in production and will be available for classroom use in Fall, 2003. Extensive online support provides additional explanation and practice for each lesson. Focused, organized, and easy to follow, *Glencoe Pre-Algebra* shows students how to read, write, and understand the unique language of algebra.

**Student Experiences**

The design of *Glencoe Pre-Algebra* was developed to help students of all ability levels develop mathematical skills and concepts. Students are given the tools they need to organize their thinking, process new concepts, and connect them to concepts they already know. Student materials include explanations, examples, practice and applications, hands-on labs and activities, technology labs and activities, projects, and online activities and research. An emphasis on reading and writing in mathematics helps students to develop technical reading skills and to understand and apply mathematical concepts. Foldables™ Study Organizers help students organize and record information and create their own study guides. Extensive online study tools and other technology resources provide students with alternative formats for learning.

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## Program Description/Textbook or Print Instructional Material

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### Assessment

*Glencoe Pre-Algebra* includes a variety of formative and summative assessment options in both print and electronic form. Diagnostic and Placement Tests assist in determining student readiness and identifying areas where intervention activities may be necessary. Prerequisite Skills checks at the beginning of each Chapter and at the end of each lesson also assess student readiness for upcoming topics. Practice Quizzes, Practice Tests, Study Guide and Review, and Standardized Test Practice in the Student Edition provide ongoing self-assessment opportunities before students take actual tests. The Standardized Test Practice in the Student Edition includes Multiple Choice, Free Response, and Open-Ended questions. Additional assessment strategies and suggestions for Daily Intervention appear throughout the Teacher Wraparound Edition. Assessment Masters for each Chapter in *Glencoe Algebra 1* include six different Chapter Tests, Open-Ended Assessment with Scoring Rubric, Vocabulary Test and Review, four quizzes, Mid-Chapter Test, Cumulative Review, and a 2-page Standardized Test Practice. Interactive assessment opportunities are available online in the form of Self-Check Quizzes, Vocabulary Review, Chapter Test Practice, and Standardized Test Practice. The accompanying workbook *Preparing for the 8th Grade CATS* provides practice tied to the Kentucky CATS tests for mathematics. The TestCheck and Worksheet Builder software contains correlations to the Kentucky Core Content Standards and allows teachers to easily create assessments for individual lessons and Chapters linked to Kentucky Core Content.

## Program Description/Textbook or Print Instructional Material

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### Glencoe Pre-Algebra ©2003(continued)

#### **Organization**

The consistent instructional design of the lessons strengthens student learning and contributes to the effectiveness of the Unit structure. There are five Units, with 2 – 4 Chapters per Unit and 7 – 9 Lessons per Chapter. Each lesson follows the four-step plan of Focus, Teach, Practice/Apply, and Assess. The What You'll Learn section immediately focuses students on the two related objectives for the Lesson and promotes relevance through a How or Why question. Teaching then takes place through instructional narratives, diagrams, step-by-step examples, and summaries of Key Concepts. Exercise Sets are divided into Check for Understanding - exercises that are designed to be done in class to assess student readiness for the homework - Practice and Apply, and Maintain Your Skills. Additional Skills Practice and Verbal Problem Solving Practice are provided in the back of the Student Edition. Each Chapter ends with a well-organized, easy-to-use Study Guide and Review section as well as a Practice Chapter Test and Standardized Test Practice aligned and verified by Princeton Review. WebQuest Projects are introduced in each Unit Opener and are linked to concepts and skills throughout that Unit.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher Classroom Resources, KY TeacherWorks CD-ROM, Interactive Chalkboard CD-ROM, Solutions Manual, KY TestCheck & Worksheet Builder CD-ROM, KY Guide to Daily Intervention, KY CATS Prep CD-ROM, Answer Key Transparencies, Pre-AlgePASS Tutorial Plus CD-ROM, Multimedia Applications CD-ROM: Virtual Activities, MindJogger Videoquizzes, Vocabulary Puzzlemaker, State Test Practice Transparencies Grade 8, State Test Prep CD-ROM Middle School, Hot Words Hot Topics TE, Parent & Student Study Guide Wkbk. *Free, 1 per School:* Spanish Study Guide and Intervention Wkbk (upon request), Spanish Skills Practice Wkbk (upon request), Spanish Practice Wkbk (upon request), Spanish Assessment Masters (upon request), Spanish Parent & Student Study Guide Wkbk (upon request), Internet Website. *Choice of 2 per Teacher (of the following 4 items):* State Test Practice Wkbk Grade 8 TE, Terra Nova Practice & Sample Test Wkbk TE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment TE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE. *Choice of 2 per Teacher (of the following 5 items):* 5-Minute Check Transparencies w/Standardized Test Practice, Real World Transparencies and Masters, Overhead Manipulative Resources, Hot Words Hot Topics Reference Set (10 SE's per teacher), Interactive SE (classroom set of 30). *Choice of 2 per SE Purchased, 1st year of adoption only. Subsequent Years Upon Request:* Study Guide & Intervention Wkbk, Practice Wkbk, Prerequisite Skills Wkbk: Remediation and Intervention, State Test Prep Wkbk Grade 8 SE, Terra Nova Practice & Sample Test Wkbk SE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment SE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE, Interactive SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

#### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

**Research Data** Prior to and during the development of *Glencoe Pre-Algebra* ©2003, extensive research, testing, and piloting of the program was conducted to ensure the appropriateness and effectiveness of our instructional approach. Discussion Groups with teachers and supervisors were held to determine the effectiveness of our current copyrights and to gather suggestions for additional features that teachers would like to see. To help ensure that *Glencoe Pre-Algebra* ©2003 was practical and on target, Glencoe enlisted a wide range of consultants and reviewers to provide an in-depth analysis of the curriculum. All Standardized Test Practice pages were aligned and verified by The Princeton Review to ensure they meet state and national standards. A Teacher Advisory Board composed of math educators who used the previous edition of *Glencoe Pre-Algebra* identified those aspects of the program that worked well in the classroom and promoted student success and made suggestions regarding aspects that needed improvement. Those suggestions led to including a strong reading strand, enlisting a reading consultant on the program, and developing innovative student and teacher materials to make mathematics instruction more effective. An independent research firm was contracted to organize and conduct focus groups with middle school teachers in various cities to gather feedback on the effectiveness of the design and special features. Sample chapters were field tested to gather evidence that the lessons are effective. Pre- and post-assessments were used to measure student growth and teacher evaluations were gathered to gauge the effectiveness of the field test material. These field tests involved seventh and eighth grade classes and were conducted in urban and suburban districts..

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u>http://www.glencoe.com</u>
<b>Title:</b>	<u>Glencoe Algebra 1</u>		
<b>Author:</b>	<u>Holliday, et al</u>	<b>Copyright:</b>	<u>2003</u>
<b>ISBN:</b>	<u>0078250838</u>	<b>Course/Content Area:</b>	<u>Algebra 1</u>
<b>Intended Grade or Level:</b>	<u>7-10</u>	<b>Readability Level:</b>	<u>8.3 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>52.98</u>

## Program Description/Textbook or Print Instructional Material

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### FEATURES\*

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Content

*Glencoe Algebra 1* meets the needs of both middle school and high school students enrolled in an Algebra 1 course. It covers all of the Kentucky Core Content Standards for Algebra 1. The text is organized by units to lend depth and cohesiveness to the curriculum. The major strands of mathematics - Number and Operations, Algebra, Geometry, Measurement, and Data Analysis and Probability - are incorporated where appropriate. The full content is also available in interactive CD-ROM format. Online versions of the student edition are in production and will be available for classroom use in Fall, 2003. Extensive online support provides additional explanation and practice for each lesson. Focused, organized, and easy to follow, *Glencoe Algebra 1* shows students how to read, write, and understand the unique language of algebra.

#### Student Experiences

The design of *Glencoe Algebra 1* was developed to help students of all ability levels develop mathematical skills and concepts. Student materials include explanations, examples, practice and applications, hands-on labs and activities, technology labs and activities, projects, and online activities and research. An emphasis on reading and writing in mathematics helps students to develop technical reading skills and to understand and apply mathematical concepts. Foldables™ Study Organizers help students organize and record information and create their own study guides. Extensive online study tools and other technology resources provide students with alternative formats for learning. Throughout the *Glencoe Algebra 1* program students are given the tools they need to organize their thinking, process new concepts, and connect them to concepts they already know.

#### Assessment

*Glencoe Algebra 1* includes a variety of formative and summative assessment options in both print and electronic form. Diagnostic and Placement Tests assist in determining student readiness and identifying areas where intervention activities may be necessary. Prerequisite Skills checks at the beginning of each Chapter and at the end of each lesson also assess student readiness for upcoming topics. Practice Quizzes, Practice Tests, Study Guide and Review, and Standardized Test Practice in the Student Edition provide ongoing self-assessment opportunities before students take actual tests. The Standardized Test Practice in the Student Edition includes Multiple Choice, Free Response, Quantitative Comparison, and Open-Ended questions. Additional assessment strategies and suggestions for Daily Intervention appear throughout the Teacher Wraparound Edition. Assessment Masters for each Chapter in *Glencoe Algebra 1* include six different Chapter Tests, Open-Ended Assessment with Scoring Rubric, Vocabulary Test and Review, four quizzes, Mid-Chapter Test, Cumulative Review, and a 2-page Standardized Test Practice. Interactive assessment opportunities are available online in the form of Self-Check Quizzes, Vocabulary Review, Chapter Test Practice, and Standardized Test Practice. Accompanying workbooks Preparing for the 8th Grade CATS and Preparing for the 11<sup>th</sup> Grade CATS provides practice tied to the Kentucky CATS tests for mathematics. The TestCheck and Worksheet Builder software contains correlations to the Kentucky Core Content Standards and allows teachers to easily create assessments for individual lessons and Chapters linked to Kentucky Core Content.

### **Glencoe Algebra 1 ©2003 (continued)**

#### Organization

The consistent instructional design of the lessons strengthens student learning and contributes to the effectiveness of the Unit structure. There are five Units, with 2 – 4 Chapters per Unit and 7 – 9 Lessons per Chapter. Each lesson follows the four-step plan of Focus, Teach, Practice/Apply, and Assess. The What You'll Learn section immediately focuses students on the two related objectives for the Lesson and promotes relevance through a How or Why question. Teaching then takes place through instructional narratives, diagrams, step-by-step examples, and summaries of Key Concepts. Exercise Sets are divided into Check for Understanding - exercises that are designed to be done in class to assess student readiness for the homework - Practice and Apply, and Maintain Your Skills. Additional Skills Practice and Verbal Problem Solving Practice are provided in the back of the Student Edition. Each Chapter ends with a well-organized, easy-to-use Study Guide and Review section as well as a Practice Chapter Test and Standardized Test Practice aligned and verified by Princeton Review.

## Program Description/Textbook or Print Instructional Material

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WebQuest Projects are introduced in each Unit Opener and are linked to concepts and skills throughout that Unit.

### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher's Classroom Resources, KY TeacherWorks CD-ROM, Interactive Chalkboard CD-ROM, Solutions Manual, KY TestCheck & Worksheet Builder CD-ROM, KY Guide to Daily Intervention, KY CATS Prep CD-ROM, Answer Key Transparencies, AlgePASS Tutorial Plus CD-ROM, Multimedia Applications CD-ROM: Virtual Activities, MindJogger Videoquizzes, Vocabulary Puzzlemaker, State Test Prep CD-ROM High School, Parent & Student Study Guide Wkbk, Hot Words Hot Topics TE. *Free, 1 per School:* Spanish Study Guide and Intervention Wkbk (on req), Spanish Skills Practice Wkbk (on req), Spanish Practice Wkbk (on req), Spanish Assessment Masters (on req), Spanish Parent & Student Study Guide Wkbk (on req), Free Access to Glencoe Math Website/On-line Study Tools. *Choice of 2 per Teacher (of the following 4 items):* State Test Prep Answer Key, Terra Nova Practice & Sample Test Wkbk TE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment TE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE. *Choice of 2 per Teacher (of the following 5 items):* 5-Minute Check Transparencies w/Standardized Test Practice, Real World Transparencies and Masters, Overhead Manipulative Resources, Hot Words Hot Topics Reference Set (10 SE's per teacher), Interactive Student Edition (classroom set of 30). *Choice of 2 per Student Edition Purchased, 1<sup>st</sup> year of adoption only. Subsequent Years On req:* Study Guide & Intervention Wkbk, Practice Wkbk, Prerequisite Skills Wkbk: Remediation and Intervention, State Test Prep Wkbk High School, Terra Nova Practice & Sample Test Wkbk SE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment SE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials** All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

Research Data Prior to & during the development of *Glencoe Algebra 1* ©2003, extensive research, testing, & piloting of the program was conducted to ensure the appropriateness & effectiveness of our instructional approach. Discussion Groups with teachers & supervisors were held to determine the effectiveness of our current copyrights & to gather suggestions for additional features that teachers would like to see. To help ensure that *Glencoe Algebra 1* ©2003 was practical & on target, Glencoe enlisted a wide range of consultants & reviewers to provide an in-depth analysis of the curriculum. All Standardized Test Practice pages were aligned & verified by The Princeton Review to ensure they meet state & national standards. A Teacher Advisory Board composed of math educators who used the previous edition of Glencoe Algebra 1 identified those aspects of the program that worked well in the classroom & promoted student success & made suggestions regarding aspects that needed improvement. Those suggestions led to including a strong reading strand, enlisting a reading consultant on the program, & developing innovative student & teacher materials to make mathematics instruction more effective. An independent research firm was contracted to organize & conduct focus groups with middle school & high school algebra teachers in various cities to gather feedback on the effectiveness of the design & special features. Sample chapters were field tested to gather evidence that the lessons are effective. Pre- & post-assessments were used to measure student growth & teacher evaluations were gathered to gauge the effectiveness of the field test material. These field tests involved 8<sup>th</sup> & 9<sup>th</sup> grade classes & were conducted in urban & suburban districts.



### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Algebra: Concepts and Applications		
Author:	Price, et al	Copyright:	2001
ISBN:	0078213479	Course/Content Area:	Algebra 1
Intended Grade or Level:	7-10	Readability Level:	6.7 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	52.98

#### FEATURES\*

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Content

*Algebra: Concepts and Applications* presents all of the fundamental concepts of Algebra 1 and covers all of the Kentucky Core Content Standards for Algebra 1. The content addresses the language of algebra, integers, linear and quadratic equations, proportional reasoning, functions and graphing, powers, roots, polynomials, factoring, inequalities, systems of equations and inequalities, radical expressions, and rational expressions and equations. The program is designed to meet the needs of students who may have experienced difficulties in previous mathematics courses. Most lessons focus on one objective, and prerequisite skills are addressed at the point where they are needed. Online support provides additional practice for each lesson. With its easy-to-read format and emphasis on visuals and hands-on activities, *Algebra: Concepts and Applications* helps motivate students to learn Algebra 1.

#### Student Experiences

*Algebra: Concepts and Applications* is designed to help students of basic and average ability levels develop algebraic skills and concepts. The concise lesson narrative, lower readability, and unique info-graphics help students learn important concepts. Hands-on activities give students the opportunity to bridge the gap between the concrete and the abstract. Getting Ready features in the exercises allow students to review subskills needed for homework assignments. Reading Algebra features help students understand the terminology of algebra, which is necessary for concept development. Most examples are immediately followed by Your Turn problems, which give students the opportunity to practice the concepts they have just learned. Check for Understanding in every lesson allows students to gauge their own mastery of lesson concepts.

#### Assessment

*Algebra: Concepts and Applications* includes a variety of assessment instruments to support instruction. The Student Edition has two quizzes in each chapter as well as a Study Guide and Assessment that includes vocabulary review, review exercises for each objective, and applications and problem solving. Also included for each chapter are a Chapter Test and a 2-page Preparing for Standardized Tests assessment. The Teacher's Wraparound Edition includes a 5-Minute Check and Open-Ended Assessment in every lesson. The Assessment and Evaluation Masters include multiple-choice tests, free-response tests, an open-ended assessment, a mid-chapter test, quizzes, cumulative review, and standardized test practice. The TestCheck and Worksheet Builder CD-ROM, correlated to the Kentucky Core Content Standards for Algebra 1, allows teachers to create customized tests and quizzes with any combination of free-response, multiple-choice, short-answer, and open-ended items. The Test Check and Worksheet Builder also contains special banks of questions for SAT, ACT, and TIMSS. Preparing for CATS Practice and Sample Test Workbook gives students practice by objective and sample tests representative of CATS. *Algebra: Concepts and Applications* provides integrated and ongoing test preparation throughout the year to help reduce student anxiety and improve student performance.

## Program Description/Textbook or Print Instructional Material

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### Algebra: Concepts and Applications ©2001 (continued)

#### Organization

*Algebra: Concepts and Applications* is composed of 15 chapters, each having 5 to 7 lessons. Each lesson follows a straightforward format. The lesson begins with What You'll Learn and Why It's Important, which provide the objective of the lesson and the benefit of learning the concept. In the lesson narrative, important terms are highlighted in yellow, and definitions, rules, and properties are displayed in concept boxes. Completely worked-out examples with clear explanations parallel the exercises in the Guided Practice and Practice sections. Check for Understanding exercises are designed to be completed in class. In the Communicating Mathematics exercises, students define, describe, and explain mathematical concepts. Keyed to the examples, the Guided Practice exercises present a representative sample of the exercises in the Practice exercises. The Practice exercises are separated into A, B, and C sections, indicated only in the Teacher's Wraparound Edition. The Applications and Problem Solving exercises apply algebraic concepts to both real-life and mathematical problem situations. Each lesson contains a Critical Thinking exercise in which students explain, justify, and prove mathematical relationships. The Mixed Review exercises are spiraled and cumulative. Each Mixed Review section contains a Standardized Test Practice question, some of which are open-ended. The Student Handbook in the back of the Student Edition contains a Prerequisite Skills Handbook and Extra Practice for each lesson as well as a Graphing Calculator Tutorial, Glossary, Selected Answers, and Index.

#### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher's Classroom Resources, Interactive Teacher Edition, KY TestCheck & Worksheet Builder CD-ROM, AlgePASS: Concepts and Applications Tutorial CD-ROM, KY Interactive Lesson Planner, KY Guide to Daily Intervention, KY CATS Prep CD-ROM, Teaching Transparencies, 5-Minute Check Transparencies, Answer Key Transparencies, MindJogger Videoquizzes, Vocabulary Puzzlemaker, Teaching Math with Foldables by Dinah Zike, Using the Internet in the Math Classroom, State Test Prep CD-ROM High School, Hot Words Hot Topics TE. *Choice of 1 per Teacher:* Overhead Manipulative Resources, Hot Words Hot Topics Reference Set (10 SE's per teacher). *Free, 1 per School:* Spanish Study Guide & Assessment (upon request), Free Access to Glencoe Math Website/On-line Study Tools. *Choice of 2 per Teacher:* State Test Prep Answer Key, KY CATS Math Practice & Sample Test Wbk For Gr 8 Assessment TE, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment TE. *Choice of 2 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* Prerequisite Skills Workbook: A Preparation for Algebra, Practice Workbook, State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wbk For Gr 8 Assessment SE, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Research Data

*Algebra: Concepts and Applications* is the product of ongoing classroom-oriented research that involves students, teachers, curriculum supervisors, administrators, parents, and college-level mathematics educators. Prior to publication of any Glencoe program, typical research activities include a review of educational research and recommendations made by groups such as NCTM; mail surveys of mathematics educators, discussion groups involving mathematics teachers, department heads, and supervisors; focus groups involving mathematics educators; face-to-face interviews with mathematics educators; telephone surveys of mathematics educators; in-depth analysis of manuscript by a wide range of reviewers and consultants; and field tests in which students and teachers use pre-publication manuscript in the classroom.

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**Program Description/Textbook or Print Instructional Material**

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### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Glencoe Geometry: Integration, Applications, Connections		
Author:	Burrill, et al	Copyright:	2001
ISBN:	0078228808	Course/Content Area:	Geometry
Intended Grade or Level:	8-12	Readability Level:	9.5 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	53.97

#### FEATURES\*

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Content

*Glencoe Geometry: Integration, Applications, Connections* presents all of the concepts of Geometry and covers all of the Kentucky Core Content Standards for Geometry. The content addresses the basic terms of geometry, reasoning, proof with an emphasis on two-column proof, perpendicular and parallel lines, triangles and congruence, triangle inequalities, quadrilaterals, proportion and similarity, basic trigonometry, circles, area, surface area, volume, coordinate graphing, loci, and transformations. The other strands – number and operations, algebra, measurement, data analysis and probability – are incorporated where appropriate. Online support provides additional practice for each lesson. Focused, organized, and easy to follow, *Glencoe Geometry: Integration, Applications, Connections* help students discover, learn, and apply geometry.

#### Student Experiences

*Glencoe Geometry: Integration, Applications, Connections* is designed to help students of all ability levels develop geometric skills and concepts. Students relate and apply geometric concepts to other areas of mathematics, other disciplines, and real-world problems. Practical strategies meet the needs of students with differing rates of learning and learning styles. Modeling Mathematics activities and multi-day Investigations engage students with manipulatives and mathematical models. Graphing calculators and CD-ROM multimedia technology provide tools for both problem solving and discovery materials. Modeling, journal writing, cooperative learning projects, and technology tools helps students experience success. Students are given the tools they need to organize their thinking, to process new concepts, and to connect and extend them to other concepts.

#### Assessment

*Glencoe Geometry: Integration, Applications, Connections* includes a variety of assessment instruments to support instruction. The Student Edition has a mid-chapter Self Test in each chapter as well as a Highlights section with a vocabulary listing and vocabulary review, a Study Guide and Assessment that includes review exercises for each objective, applications and problem solving, and alternative assessment. Also included for each chapter are a Chapter Test (in the back of the text) and a 2-page College Entrance Exam Practice. The Teacher's Wraparound Edition includes a 5-Minute Check and Closing Activity for assessment in every lesson. The Assessment and Evaluation Masters include multiple-choice tests, free-response tests, a calculator-based test, a performance assessment, a mid-chapter test, quizzes, cumulative review, and mathematics learning assessment items. The TestCheck and Worksheet Builder CD-ROM, correlated to the Kentucky Core Content Standards for Geometry, allows teachers to create customized tests and quizzes with any combination of free-response, multiple-choice, short-answer, and open-ended items. The Test Check and Worksheet Builder also contains special banks of questions for SAT, ACT, and TIMSS. Preparing for CATS Practice and Sample Test Workbook gives students practice by objective and sample tests representative of CATS. *Glencoe Geometry: Integration, Applications, Connections* provides integrated and ongoing test preparation throughout the year to help reduce student anxiety and improve student performance.

## Program Description/Textbook or Print Instructional Material

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### Glencoe Geometry: Integration, Applications, Connections ©2001 (continued)

#### **Organization**

*Glencoe Geometry: Integration, Applications, Connections* is composed of 13 chapters, each having 5 to 8 lessons. Each lesson follows a straightforward format. The lesson begins with What You'll Learn and Why It's Important, which provide the objective of the lesson and the benefit of learning the concept. In the lesson narrative, important terms are highlighted in yellow, and definitions, rules, and properties are displayed in concept boxes. Completely worked-out examples with clear explanations parallel the exercises in the Guided Practice and Practice sections. Check for Understanding exercises ensure that all students are engaged in the lesson and understand the concepts. In the Communicating Mathematics exercises, students define, describe, and explain mathematical concepts. The Guided Practice exercises present a representative sample of the exercises in the Practice exercises. The Practice exercises are separated into A, B, and C sections, indicated only in the Teacher's Wraparound Edition. Each lesson contains a Critical Thinking exercise in which students explain, justify, and prove mathematical relationships. Applications and Problem Solving exercises apply geometric concepts to both real-life and mathematical problem situations. The Mixed Review exercises are spiraled and cumulative. Each Mixed Review section contains an ACT or SAT question to help prepare students for these college entrance exams as well as two Algebra Review questions. The Student Handbook in the back of the Student Edition contains Extra Practice for each lesson, Chapter Tests, a list of postulates, theorems, and corollaries, Glossary, Spanish Glossary, Selected Answers, and Index.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher's Classroom Resources, Interactive Teacher Edition, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment TE, KY TestCheck & Worksheet Builder CD-ROM, GeomPASS Tutorial CD-ROM, KY Interactive Lesson Planner, KY Guide to Daily Intervention, KY CATS Prep CD-ROM, Teaching Transparencies, 5-Minute Check Transparencies, Answer Key Transparencies, Algebra & Geometry Overhead Manipulative Resources, MindJogger Videoquizzes, Vocabulary Puzzlemaker, Teaching Math with Foldables by Dinah Zike, Using the Internet in the Math Classroom, State Test Prep CD-ROM High School, State Test Prep Answer Key  
*Free, 1 per School:* Spanish Resources (upon request), Free Access to Glencoe Math Website/On-line Study Tools  
*Choice of 2 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* Prerequisite Skills Workbook: A Review of Algebra, Practice Workbook, State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

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#### **Research Data**

*Glencoe Geometry: Integration, Applications, Connections* is the product of ongoing classroom-oriented research that involves students, teachers, curriculum supervisors, administrators, parents, and college-level mathematics educators. Prior to publication of any Glencoe program, typical research activities include a review of educational research and recommendations made by groups such as NCTM; mail surveys of mathematics educators, discussion groups involving mathematics teachers, department heads, and supervisors; focus groups involving mathematics educators; face-to-face interviews with mathematics educators; telephone surveys of mathematics educators; in-depth analysis of manuscript by a wide range of reviewers and consultants; and field tests in which students and teachers use pre-publication manuscript in the classroom.

### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Geometry: Concepts & Applications		
Author:	Price, et al	Copyright:	2001
ISBN:	0028348176	Course/Content Area:	Geometry
Intended Grade or Level:	8-12	Readability Level:	7.9 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	53.97

#### FEATURES\*

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#### Content

*Geometry: Concepts and Applications* presents all of the fundamental concepts of Geometry and covers all of the Kentucky Core Content Standards for Geometry. The content addresses the basic terms of geometry, reasoning, angles, parallels, triangles and congruence, triangle inequalities, quadrilaterals, proportion and similarity, polygons, circles, area, surface area, volume, basic trigonometry, coordinate graphing, transformations, and proof with an emphasis on informal proof. The program is designed to meet the needs of students who may have experienced difficulties in previous mathematics courses. Most lessons focus on one objective, and prerequisite skills are addressed at the point where they are needed. Online support provides additional practice for each lesson. With its easy-to-read format and emphasis on visuals and hands-on activities, *Geometry: Concepts and Applications* helps motivate students to learn Geometry.

#### Student Experiences

*Geometry: Concepts and Applications* is designed to help students of basic and average ability levels develop geometric skills and concepts. The concise lesson narrative, lower readability, and unique info-graphics and photo-graphics help students learn important concepts. Hands-on activities give students the opportunity to bridge the gap between the concrete and the abstract. Getting Ready features in the exercises allow students to review subskills needed for homework assignments. Reading Geometry features help students understand the terminology of geometry, which is necessary for concept development. Most examples are immediately followed by Your Turn problems, which give students the opportunity to practice the concepts they have just learned. Check for Understanding in every lesson allows students to gauge their own mastery of lesson concepts.

#### Assessment

*Geometry: Concepts and Applications* includes a variety of assessment instruments to support instruction. The Student Edition has two quizzes in each chapter as well as a Study Guide and Assessment that includes vocabulary review, review exercises for each objective, and applications and problem solving. Also included for each chapter are a Chapter Test and a 2-page Preparing for Standardized Tests assessment. The Teacher's Wraparound Edition includes a 5-Minute Check and Open-Ended Assessment in every lesson. The Assessment and Evaluation Masters include multiple-choice tests, free-response tests, an open-ended assessment, a mid-chapter test, quizzes, cumulative review, and standardized test practice. The TestCheck and Worksheet Builder CD-ROM, correlated to the Kentucky Core Content Standards for Geometry, allows teachers to create customized tests and quizzes with any combination of free-response, multiple-choice, short-answer, and open-ended items. The Test Check and Worksheet Builder also contains special banks of questions for SAT, ACT, and TIMSS. Preparing for CATS Practice and Sample Test Workbook gives students practice by objective and sample tests representative of CATS. *Geometry: Concepts and Applications* provides integrated and ongoing test preparation throughout the year to help reduce student anxiety and improve student performance.

## Program Description/Textbook or Print Instructional Material

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### Geometry: Concepts & Applications ©2001 (continued)

#### Organization

*Geometry: Concepts and Applications* is composed of 16 chapters, each having 4 to 7 lessons. Each lesson follows a straightforward format. The lesson begins with What You'll Learn and Why It's Important, which provide the objective of the lesson and the benefit of learning the concept. In the lesson narrative, important terms are highlighted in yellow, and definitions, rules, and properties are displayed in concept boxes. Completely worked-out examples with clear explanations parallel the exercises in the Guided Practice and Practice sections. Check for Understanding exercises are designed to be completed in class. In the Communicating Mathematics exercises, students define, describe, and explain mathematical concepts. Keyed to the examples, the Guided Practice exercises present a representative sample of the exercises in the Practice exercises. The Practice exercises are separated into A, B, and C sections, indicated only in the Teacher's Wraparound Edition. The Applications and Problem Solving exercises apply geometric concepts to both real-life and mathematical problem situations. Each lesson contains a Critical Thinking exercise in which students explain, justify, and prove mathematical relationships. The Mixed Review exercises are spiraled and cumulative. Each Mixed Review section contains a Standardized Test Practice question, some of which are open-ended. The Student Handbook in the back of the Student Edition contains Algebra Review and Extra Practice for each lesson as well as a Graphing Calculator Tutorial, Glossary, Selected Answers, and Index.

#### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher's Classroom Resources, Interactive Teacher Edition, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment TE, KY TestCheck & Worksheet Builder CD-ROM, GeomPASS: Concepts and Applications Tutorial CD-ROM, KY Interactive Lesson Planner, KY Guide to Daily Intervention, KY CATS Prep CD-ROM, Teaching Transparencies, 5-Minute Check Transparencies, Answer Key Transparencies, Overhead Manipulative Resources, MindJogger Videoquizzes, Vocabulary Puzzlemaker, Teaching Math with Foldables by Dinah Zike, Using the Internet in the Math Classroom, State Test Prep CD-ROM High School, State Test Prep Answer Key. *Free, 1 per School:* , Spanish Study Guide & Assessment (upon request), Free Access to Glencoe Math Website/On-line Study Tools. *Choice of 2 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* Prerequisite Skills Workbook: A Review of Algebra, Practice Workbook, State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

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#### Research Data

*Geometry: Concepts and Applications* is the product of ongoing classroom-oriented research that involves students, teachers, curriculum supervisors, administrators, parents, and college-level mathematics educators. Prior to publication of any Glencoe program, typical research activities include a review of educational research and recommendations made by groups such as NCTM; mail surveys of mathematics educators, discussion groups involving mathematics teachers, department heads, and supervisors; focus groups involving mathematics educators; face-to-face interviews with mathematics educators; telephone surveys of mathematics educators; in-depth analysis of manuscript by a wide range of reviewers and consultants; and field tests in which students and teachers use pre-publication manuscript in the classroom.

### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Glencoe Algebra 2		
Author:	Holliday , et al.	Copyright:	2003
ISBN:	0078279992	Course/Content Area:	Algebra 2
Intended Grade or Level:	10-12	Readability Level:	9.6 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	54.99

#### FEATURES\*

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Content

*Glencoe Algebra 2* meets the needs of both middle school and high school students enrolled in an Algebra 2 course. It covers all of the Kentucky Core Content Standards for Algebra 2. The text is organized by units to lend depth and cohesiveness to the curriculum. The major strands of mathematics - Number and Operations, Algebra, Geometry, Measurement, and Data Analysis and Probability - are incorporated where appropriate. The full content is also available in interactive CD-ROM format. Online versions of the student edition are in production and will be available for classroom use in Fall, 2003. Extensive online support provides additional explanation and practice for each lesson. Focused, organized, and easy to follow, *Glencoe Algebra 2* shows students how to read, write, and understand the unique language of algebra.

#### Student Experiences

The design of *Glencoe Algebra 2* was developed to help students of all ability levels develop mathematical skills and concepts. Student materials include explanations, examples, practice and applications, hands-on labs and activities, technology labs and activities, projects, and online activities and research. An emphasis on reading and writing in mathematics helps students to develop technical reading skills and to understand and apply mathematical concepts. Foldables™ Study Organizers help students organize and record information and create their own study guides. Extensive online study tools and other technology resources provide students with alternative formats for learning. Throughout the *Glencoe Algebra 2* program students are given the tools they need to organize their thinking, process new concepts, and connect them to concepts they already know.

#### Assessment

*Glencoe Algebra 2* includes a variety of formative and summative assessment options in both print and electronic form. Diagnostic and Placement Tests assist in determining student readiness, and identifying areas where intervention activities may be necessary. Prerequisite Skills checks at the beginning of each Chapter and at the end of each lesson also assess student readiness for upcoming topics. Practice Quizzes, Practice Tests, Study Guide and Review, and Standardized Test Practice in the Student Edition provide ongoing self-assessment opportunities before students take actual tests. The Standardized Test Practice in the Student Edition includes Multiple Choice, Free Response, Quantitative Comparison, and Open-Ended questions. Additional assessment strategies and suggestions for Daily Intervention appear throughout the Teacher Wraparound Edition. Assessment Masters for each Chapter in *Glencoe Algebra 2* include six different Chapter Tests, Open-Ended Assessment with Scoring Rubric, Vocabulary Test and Review, four quizzes, Mid-Chapter Test, Cumulative Review, and a 2-page Standardized Test Practice. Interactive assessment opportunities are available online in the form of Self-Check Quizzes, Vocabulary Review, Chapter Test Practice, and Standardized Test Practice. The accompanying workbook *Preparing for the 11<sup>th</sup> Grade CATS* provides practice tied to the Kentucky CATS tests for mathematics. The TestCheck and Worksheet Builder software contains correlations to the Kentucky Core Content Standards and allows teachers to easily create assessments for individual lessons and Chapters linked to Kentucky Core Content.



## Program Description/Textbook or Print Instructional Material

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### Glencoe Algebra 2 ©2003 (continued)

#### Organization

The consistent instructional design of the lessons strengthens student learning and contributes to the effectiveness of the Unit structure. There are five Units, with 2 – 4 Chapters per Unit and 7 – 9 Lessons per Chapter. Each lesson follows the four-step plan of Focus, Teach, Practice/Apply, and Assess. The What You'll Learn section immediately focuses students on the two related objectives for the Lesson and promotes relevance through a How or Why question. Teaching then takes place through instructional narratives, diagrams, step-by-step examples, and summaries of Key Concepts. Exercise Sets are divided into Check for Understanding - exercises that are designed to be done in class to assess student readiness for the homework - Practice and Apply, and Maintain Your Skills. Additional Skills Practice and Verbal Problem Solving Practice are provided in the back of the Student Edition. Each Chapter ends with a well-organized, easy-to-use Study Guide and Review section as well as a Practice Chapter Test and Standardized Test Practice aligned and verified by Princeton Review. WebQuest Projects are introduced in each Unit Opener and are linked to concepts and skills throughout that Unit.

#### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher's Classroom Resources, KY TeacherWorks CD-ROM, Interactive Chalkboard CD-ROM, Solutions Manual, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment TE, KY TestCheck & Worksheet Builder CD-ROM, KY Guide to Daily Intervention, KY CATS Prep CD-ROM, Answer Key Transparencies, Alge2PASS Tutorial Plus CD-ROM, Multimedia Applications CD-ROM: Virtual Activities, MindJogger Videoquizzes, Vocabulary Puzzlemaker, State Test Prep Answer Key, *Free, 1 per School:* Free Access to Glencoe Math Website/On-line Study Tools. *Free, Choice of 2 per Teacher:* 5-Minute Check Transparencies w/Standardized Test Practice, Real World Transparencies and Masters, Overhead Manipulative Resources, Interactive Student Edition (classroom set of 30), *Choice of 2 per Student Edition Purchased, 1st year of adoption only. Subsequent Years Upon Request:* Study Guide & Intervention Workbook, Practice Workbook, State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

#### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Research Data

Prior to and during the development of *Glencoe Algebra 2* ©2003, extensive research, testing, and piloting of the program was conducted to ensure the appropriateness and effectiveness of our instructional approach. Discussion Groups with teachers and supervisors were held to determine the effectiveness of our current copyrights and to gather suggestions for additional features that teachers would like to see. To help ensure that *Glencoe Algebra2* ©2003 was practical and on target, Glencoe enlisted a wide range of consultants and reviewers to provide an in-depth analysis of the curriculum. All Standardized Test Practice pages were aligned and verified by The Princeton Review to ensure they meet state and national standards. A Teacher Advisory Board composed of math educators who used the previous edition of *Glencoe Algebra 2* identified those aspects of the program that worked well in the classroom and promoted student success and made suggestions regarding aspects that needed improvement. Those suggestions led to including a strong reading strand, enlisting a reading consultant on the program, and developing innovative student and teacher materials to make mathematics instruction more effective. An independent research firm was contracted to organize and conduct focus groups with high school algebra 2 teachers in various cities to gather feedback on the effectiveness of the design and special features.

### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Advanced Mathematical Concepts: Precalculus with Applications		
Author:	Gordon-Holiday, et al	Copyright:	2001
ISBN:	0028341759	Course/Content Area:	Pre-Calculus & Advanced Topics in Math
Intended Grade or Level:	10-12	Readability Level:	11.2 Dale Chall
List Price:	N/A	Lowest Wholesale Price:	60.48

#### FEATURES\*

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Content

*Glencoe Advanced Mathematical Concepts: Precalculus with Applications* is designed to meet the needs of high school students enrolled in a precalculus course. It covers all of the Kentucky Core Content Standards for Pre-Calculus and Advanced Topics in Math. The content is organized by units to lend depth and cohesiveness to the curriculum. The content addresses relations, functions, and graphs; trigonometry; advanced functions and graphing; discrete mathematics; and an introduction to calculus. Applications in each lesson model, apply, and connect mathematical principles to real-world situations. The use of technology tools throughout the program encourage investigation and problem solving. Online support provides additional practice for each lesson. *Glencoe Advanced Mathematical Concepts: Precalculus with Applications* provides a complete learning program for understanding and applying higher level mathematics.

#### Student Experiences

*Glencoe Advanced Mathematical Concepts: Precalculus with Applications* is a flexible, application-based program designed to prepare students for calculus. Students relate and apply higher level mathematical concepts to many areas of mathematics, other disciplines, and real-world problems. Applications at the beginning of each lesson engage students' interest. Concepts are reinforced through a variety of examples, and exercises encourage students to write, read, practice, think logically, and review. Preparation for college entrance exams is provided in each lesson and at the end of each chapter. Students have multiple opportunities to use technology – graphing calculator and the internet – to explore and understand graphing and other mathematical concepts.

#### Assessment

*Glencoe Advanced Mathematical Concepts: Precalculus with Applications* includes a variety of assessment instruments to support instruction. The Student Edition has a Mid-Chapter Quiz in each chapter as well as a Study Guide and Assessment that includes vocabulary exercises, review exercises for each objective, applications and problem solving, and alternative assessment. Also included for each chapter are a Chapter Test (in the back of the text) and a 2-page SAT and ACT Preparation. The Teacher's Wraparound Edition includes a 5-Minute Check and Open-Ended Assessment in every lesson. The Assessment and Evaluation Masters include multiple-choice tests, free-response tests, an open-ended assessment, a mid-chapter test, quizzes, SAT and ACT practice, and cumulative review. The TestCheck and Worksheet Builder CD-ROM, correlated to the Kentucky Core Content Standards for Pre-Calculus and Advanced Topics in Math, allows teachers to create customized tests and quizzes with any combination of free-response, multiple-choice, short-answer, and open-ended items. *Glencoe Advanced Mathematical Concepts: Precalculus with Applications* provides integrated and ongoing test preparation throughout the year to help reduce student anxiety and improve student performance.

## Program Description/Textbook or Print Instructional Material

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### Advanced Mathematical Concepts: Precalculus with Applications ©2001 (continued)

#### **Organization**

*Glencoe Advanced Mathematical Concepts: Precalculus with Applications* is composed of 15 chapters, each having 4 to 9 lessons. Each lesson follows a straightforward format. The lesson begins with the objective of the lesson and a real-world application. In the lesson narrative, important terms are highlighted in yellow, and definitions, rules, and properties are displayed in concept boxes. Completely worked-out examples with clear explanations parallel the exercises in the Guided Practice and Practice sections. Check for Understanding exercises ensure that all students are engaged in the lesson and understand the concepts. In the Communicating Mathematics exercises, students define, describe, and explain mathematical concepts. The Guided Practice exercises present a representative sample of the exercises in the Practice exercises. The Practice exercises are separated into A, B, and C sections, indicated only in the Teacher's Wraparound Edition. Each lesson contains two Critical Thinking exercises in which students explain, justify, and prove mathematical relationships. Applications and Problem Solving exercises apply higher level mathematical concepts to both real-life and mathematical problem situations. The Mixed Review exercises are spiraled and cumulative. Each Mixed Review section contains an SAT/ACT question to help prepare students for these college entrance exams. The Student Handbook in the back of the Student Edition contains a Graphing Calculator Appendix, Extra Practice for each lesson, Chapter Tests, Glossary, Selected Answers, and Index.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher's Wraparound Edition, Teacher's Classroom Resources, Interactive Lesson Planner, Interactive Teacher Edition, Teaching Transparencies, 5-Minute Check Transparencies, Answer Key Transparencies, KY TestCheck & Worksheet Builder CD-ROM, Advanced MathPASS Tutorial CD-ROM, Multimedia Applications CD-ROM, KY CATS Prep CD-ROM, Using the Internet in the Math Classroom

*Free, 1 per School:* Free Access to Glencoe Math Website/On-line Study Tools

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

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#### **Research Data**

*Glencoe Advanced Mathematical Concepts: Precalculus with Applications* is the product of ongoing classroom-oriented research that involves students, teachers, curriculum supervisors, administrators, parents, and college-level mathematics educators. Prior to publication of any Glencoe program, typical research activities include a review of educational research and recommendations made by groups such as NCTM; mail surveys of mathematics educators, discussion groups involving mathematics teachers, department heads, and supervisors; focus groups involving mathematics educators; face-to-face interviews with mathematics educators; telephone surveys of mathematics educators; in-depth analysis of manuscript by a wide range of reviewers and consultants; and field tests in which students and teachers use pre-publication manuscript in the classroom.

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u><a href="http://www.glencoe.com">http://www.glencoe.com</a></u>
<b>Title:</b>	<u>Contemporary Mathematics in Context: A Unified Approach, Course 1, Part A</u>		
<b>Author:</b>	<u>Hirsch, et al</u>	<b>Copyright:</b>	<u>2003</u>
<b>ISBN:</b>	<u>0078275377</u>	<b>Course/Content Area:</b>	<u>Integrated Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>8.8 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>25.50</u>

**FEATURES\***

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**Content**

*Contemporary Mathematics in Context* contains unified content. Each year of the curriculum advances student understanding of mathematics along interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. These mathematical strands are developed in coherent, focused units that are connected by fundamental ideas such as function, symmetry, and data analysis; and by mathematical habits of mind such as visual thinking, recursive thinking and searching for and explaining patterns. Technology is an integral part of this program with complete instructions and usage for graphing calculators

**Student Experiences**

Differences in students' performance and interest can be accommodated by the depth and level of abstraction to which core topics are pursued, by the nature and degree of difficulty of applications and by opportunities for student choice on homework tasks and projects. Instructional materials promote active learning and teaching centered around collaborative small-group investigations of problem situations followed by teacher-led whole class summarizing activities.

**Assessment**

As students pursue the investigations that comprise the curriculum, the teacher is able to informally assess student performance in terms of process, content, and disposition. Group Assessment occurs at the end of each investigation. *Contemporary Mathematics in Context* also provides an assessment package that contains: end-of-lesson quizzes, end-of-unit assessments, in-class exams, take-home assessment tasks, extended projects, assessment tasks for semester and final exams. The assessments for Courses 1, 2, and 3 are also available on CD-ROMs so that teachers can customize quizzes and exams. In addition, students organize what they have learned for their own review and reference in teacher-prompted Math Toolkits. Many teachers also have their students write about the class and their learning in personal journals.

## Program Description/Textbook or Print Instructional Material

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### Contemporary Mathematics in Context: A Unified Approach, Course 1, Part A ©2003 (continued)

#### **Organization**

*Contemporary Mathematics in Context* is a four-year curriculum that replaces the traditional Algebra-Geometry-Advanced Algebra/Trigonometry-Precalculus sequence. Each course features interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The first three courses in the series provide a common core of broadly useful mathematics for all students. They were developed to prepare students for success in college, in careers, and in daily life in contemporary society. Course 4 continues the preparation of students for college mathematics. It formalizes and extends important mathematical ideas drawn from all four strands, with a focus on the mathematics needed to be successful in college mathematics and statistics courses. Each year contains two student texts, Part A and Part B to accommodate both standard and block scheduling.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, Calculator Software & Guide, Assessment & Maintenance Worksheet Builder CD-ROM, Reference & Practice Book, KY CATS Prep CD-ROM

*Free, 1 per School:* Free Access to Glencoe Math Website

*Choice of 1 per Teacher:* State Test Prep Answer Key, Terra Nova Practice & Sample Test Workbook TE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment TE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only.:* State Test Prep Workbook High School, Terra Nova Practice & Sample Test Workbook, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment SE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

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#### **Research Data**

*Contemporary Mathematics in Context* Evaluation Results summarizes results from evaluation studies conducted during the field testing of CPMP Courses 1-4. Mathematical Achievement on Standardized Tests focuses on standardized achievement test results aggregated across the 33 field test schools who were on a regular two-semester schedule. Assessments of Students' Mathematical Performance focuses on performance assessments of student achievement aggregated across the 33 field test schools who were on a regular two-semester schedule. On project developed open-ended posttests of mainly algebraic and geometric content. An Emerging Profile of the Mathematical Achievement of Students in the Core-Plus Mathematics Project Presents achievement results reported for the three-year Core-Plus field test (1994-97).

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u><a href="http://www.glencoe.com">http://www.glencoe.com</a></u>
<b>Title:</b>	<u>Contemporary Mathematics in Context: A Unified Approach, Course 1, Part B</u>		
<b>Author:</b>	<u>Hirsch, et al</u>	<b>Copyright:</b>	<u>2003</u>
<b>ISBN:</b>	<u>0078275385</u>	<b>Course/Content Area:</b>	<u>Integrated Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>8.8 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>25.50</u>

**FEATURES\***

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**Content**

*Contemporary Mathematics in Context* contains unified content. Each year of the curriculum advances student understanding of mathematics along interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. These mathematical strands are developed in coherent, focused units that are connected by fundamental ideas such as function, symmetry, and data analysis; and by mathematical habits of mind such as visual thinking, recursive thinking and searching for and explaining patterns. Technology is an integral part of this program with complete instructions and usage for graphing calculators

**Student Experiences**

Differences in students' performance and interest can be accommodated by the depth and level of abstraction to which core topics are pursued, by the nature and degree of difficulty of applications and by opportunities for student choice on homework tasks and projects. Instructional materials promote active learning and teaching centered around collaborative small-group investigations of problem situations followed by teacher-led whole class summarizing activities.

**Assessment**

As students pursue the investigations that comprise the curriculum, the teacher is able to informally assess student performance in terms of process, content, and disposition. Group Assessment occurs at the end of each investigation. *Contemporary Mathematics in Context* also provides an assessment package that contains: end-of-lesson quizzes, end-of-unit assessments, in-class exams, take-home assessment tasks, extended projects, assessment tasks for semester and final exams. The assessments for Courses 1, 2, and 3 are also available on CD-ROMs so that teachers can customize quizzes and exams. In addition, students organize what they have learned for their own review and reference in teacher-prompted Math Toolkits. Many teachers also have their students write about the class and their learning in personal journals.

## Program Description/Textbook or Print Instructional Material

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### Contemporary Mathematics in Context: A Unified Approach, Course 1, Part B ©2003 (continued)

#### Organization

*Contemporary Mathematics in Context* is a four-year curriculum that replaces the traditional Algebra-Geometry-Advanced Algebra/Trigonometry-Precalculus sequence. Each course features interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The first three courses in the series provide a common core of broadly useful mathematics for all students. They were developed to prepare students for success in college, in careers, and in daily life in contemporary society. Course 4 continues the preparation of students for college mathematics. It formalizes and extends important mathematical ideas drawn from all four strands, with a focus on the mathematics needed to be successful in college mathematics and statistics courses. Each year contains two student texts, Part A and Part B to accommodate both standard and block scheduling.

#### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, Calculator Software & Guide, Assessment & Maintenance Worksheet Builder CD-ROM, Reference & Practice Book, KY CATS Prep CD-ROM

*Free, 1 per School:* Free Access to Glencoe Math Website

*Choice of 1 per Teacher:* State Test Prep Answer Key, Terra Nova Practice & Sample Test Workbook TE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment TE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only.:* State Test Prep Workbook High School, Terra Nova Practice & Sample Test Workbook, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment SE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

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#### Research Data

*Contemporary Mathematics in Context* Evaluation Results summarizes results from evaluation studies conducted during the field testing of CPMP Courses 1-4. Mathematical Achievement on Standardized Tests focuses on standardized achievement test results aggregated across the 33 field test schools who were on a regular two-semester schedule. Assessments of Students' Mathematical Performance focuses on performance assessments of student achievement aggregated across the 33 field test schools who were on a regular two-semester schedule. On project developed open-ended posttests of mainly algebraic and geometric content. An Emerging Profile of the Mathematical Achievement of Students in the Core-Plus Mathematics Project Presents achievement results reported for the three-year Core-Plus field test (1994-97).

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u>http://www.glencoe.com</u>
<b>Title:</b>	<u>Contemporary Mathematics in Context, Course 2: A Unified Approach, Part A</u>		
<b>Author:</b>	<u>Hirsch, et al</u>	<b>Copyright:</b>	<u>1998</u>
<b>ISBN:</b>	<u>39483</u>	<b>Course/Content Area:</b>	<u>Integrated Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>9.3 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>25.50</u>

**FEATURES\***

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**Content**

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**Student Experiences**

Differences in students' performance and interest can be accommodated by the depth and level of abstraction to which core topics are pursued, by the nature and degree of difficulty of applications and by opportunities for student choice on homework tasks and projects. Instructional materials promote active learning and teaching centered around collaborative small-group investigations of problem situations followed by teacher-led whole class summarizing activities.

**Assessment**

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## Program Description/Textbook or Print Instructional Material

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### Contemporary Mathematics in Context, Course 2: A Unified Approach, Part A ©1998 (continued)

#### Organization

*Contemporary Mathematics in Context* is a four-year curriculum that replaces the traditional Algebra-Geometry-Advanced Algebra/Trigonometry-Precalculus sequence. Each course features interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The first three courses in the series provide a common core of broadly useful mathematics for all students. They were developed to prepare students for success in college, in careers, and in daily life in contemporary society. Course 4 continues the preparation of students for college mathematics. It formalizes and extends important mathematical ideas drawn from all four strands, with a focus on the mathematics needed to be successful in college mathematics and statistics courses. Each year contains two student texts, Part A and Part B to accommodate both standard and block scheduling.

#### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, Calculator Software & Guide, Assessment & Maintenance Worksheet Builder CD-ROM, Reference & Practice Book, KY CATS Prep CD-ROM

*Free, 1 per School:* Free Access to Glencoe Math Website

*Choice of 1 per Teacher:* State Test Prep Answer Key, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only:* State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

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#### Research Data

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u><a href="http://www.glencoe.com">http://www.glencoe.com</a></u>
<b>Title:</b>	<u>Contemporary Mathematics in Context, Course 2: A Unified Approach, Part B</u>		
<b>Author:</b>	<u>Hirsch, et al</u>	<b>Copyright:</b>	<u>1998</u>
<b>ISBN:</b>	<u>39487</u>	<b>Course/Content Area:</b>	<u>Integrated Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>9.3 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>25.50</u>

**FEATURES\***

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## Program Description/Textbook or Print Instructional Material

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### Contemporary Mathematics in Context, Course 2: A Unified Approach, Part B ©1998 (continued)

#### **Organization**

*Contemporary Mathematics in Context* is a four-year curriculum that replaces the traditional Algebra-Geometry-Advanced Algebra/Trigonometry-Precalculus sequence. Each course features interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The first three courses in the series provide a common core of broadly useful mathematics for all students. They were developed to prepare students for success in college, in careers, and in daily life in contemporary society. Course 4 continues the preparation of students for college mathematics. It formalizes and extends important mathematical ideas drawn from all four strands, with a focus on the mathematics needed to be successful in college mathematics and statistics courses. Each year contains two student texts, Part A and Part B to accommodate both standard and block scheduling.

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#### **Research Data**

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u>http://www.glencoe.com</u>
<b>Title:</b>	<u>Contemporary Mathematics in Context, Course 3: A Unified Approach, Part A</u>		
<b>Author:</b>	<u>Hirsch, et al</u>	<b>Copyright:</b>	<u>1999</u>
<b>ISBN:</b>	<u>39575</u>	<b>Course/Content Area:</b>	<u>Integrated Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>10.2 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>25.50</u>

**FEATURES\***

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Differences in students' performance and interest can be accommodated by the depth and level of abstraction to which core topics are pursued, by the nature and degree of difficulty of applications and by opportunities for student choice on homework tasks and projects. Instructional materials promote active learning and teaching centered around collaborative small-group investigations of problem situations followed by teacher-led whole class summarizing activities.

**Assessment**

As students pursue the investigations that comprise the curriculum, the teacher is able to informally assess student performance in terms of process, content, and disposition. Group Assessment occurs at the end of each investigation. *Contemporary Mathematics in Context* also provides an assessment package that contains: end-of-lesson quizzes, end-of-unit assessments, in-class exams, take-home assessment tasks, extended projects, assessment tasks for semester and final exams. The assessments for Courses 1, 2, and 3 are also available on CD-ROMs so that teachers can customize quizzes and exams. In addition, students organize what they have learned for their own review and reference in teacher-prompted Math Toolkits. Many teachers also have their students write about the class and their learning in personal journals.

## Program Description/Textbook or Print Instructional Material

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### Contemporary Mathematics in Context, Course 3: A Unified Approach, Part A ©1999 (continued)

#### **Organization**

*Contemporary Mathematics in Context* is a four-year curriculum that replaces the traditional Algebra-Geometry-Advanced Algebra/Trigonometry-Precalculus sequence. Each course features interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The first three courses in the series provide a common core of broadly useful mathematics for all students. They were developed to prepare students for success in college, in careers, and in daily life in contemporary society. Course 4 continues the preparation of students for college mathematics. It formalizes and extends important mathematical ideas drawn from all four strands, with a focus on the mathematics needed to be successful in college mathematics and statistics courses. Each year contains two student texts, Part A and Part B to accommodate both standard and block scheduling.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, Calculator Software & Guide, Assessment & Maintenance Worksheet Builder CD-ROM, Reference & Practice Book, KY CATS Prep CD-ROM

*Free, 1 per School:* Free Access to Glencoe Math Website

*Choice of 1 per Teacher:* State Test Prep Answer Key, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only:* State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### **Research Data**

*Contemporary Mathematics in Context* Evaluation Results summarizes results from evaluation studies conducted during the field testing of CPMP Courses 1-4. Mathematical Achievement on Standardized Tests focuses on standardized achievement test results aggregated across the 33 field test schools who were on a regular two-semester schedule. Assessments of Students' Mathematical Performance focuses on performance assessments of student achievement aggregated across the 33 field test schools who were on a regular two-semester schedule. On project developed open-ended posttests of mainly algebraic and geometric content. An Emerging Profile of the Mathematical Achievement of Students in the Core-Plus Mathematics Project Presents achievement results reported for the three-year Core-Plus field test (1994-97).

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u>http://www.glencoe.com</u>
<b>Title:</b>	<u>Contemporary Mathematics in Context, Course 3: A Unified Approach, Part B</u>		
<b>Author:</b>	<u>Hirsch, et al</u>	<b>Copyright:</b>	<u>1999</u>
<b>ISBN:</b>	<u>39579</u>	<b>Course/Content Area:</b>	<u>Integrated Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>10.2 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>25.50</u>

**FEATURES\***

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

**Content**

*Contemporary Mathematics in Context* contains unified content. Each year of the curriculum advances student understanding of mathematics along interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. These mathematical strands are developed in coherent, focused units that are connected by fundamental ideas such as function, symmetry, and data analysis; and by mathematical habits of mind such as visual thinking, recursive thinking and searching for and explaining patterns. Technology is an integral part of this program with complete instructions and usage for graphing calculators

**Student Experiences**

Differences in students' performance and interest can be accommodated by the depth and level of abstraction to which core topics are pursued, by the nature and degree of difficulty of applications and by opportunities for student choice on homework tasks and projects. Instructional materials promote active learning and teaching centered around collaborative small-group investigations of problem situations followed by teacher-led whole class summarizing activities.

**Assessment**

As students pursue the investigations that comprise the curriculum, the teacher is able to informally assess student performance in terms of process, content, and disposition. Group Assessment occurs at the end of each investigation. *Contemporary Mathematics in Context* also provides an assessment package that contains: end-of-lesson quizzes, end-of-unit assessments, in-class exams, take-home assessment tasks, extended projects, assessment tasks for semester and final exams. The assessments for Courses 1, 2, and 3 are also available on CD-ROMs so that teachers can customize quizzes and exams. In addition, students organize what they have learned for their own review and reference in teacher-prompted Math Toolkits. Many teachers also have their students write about the class and their learning in personal journals.

## Program Description/Textbook or Print Instructional Material

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### Contemporary Mathematics in Context, Course 3: A Unified Approach, Part B ©1999(continued)

#### Organization

*Contemporary Mathematics in Context* is a four-year curriculum that replaces the traditional Algebra-Geometry-Advanced Algebra/Trigonometry-Precalculus sequence. Each course features interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The first three courses in the series provide a common core of broadly useful mathematics for all students. They were developed to prepare students for success in college, in careers, and in daily life in contemporary society. Course 4 continues the preparation of students for college mathematics. It formalizes and extends important mathematical ideas drawn from all four strands, with a focus on the mathematics needed to be successful in college mathematics and statistics courses. Each year contains two student texts, Part A and Part B to accommodate both standard and block scheduling.

#### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, Calculator Software & Guide, Assessment & Maintenance Worksheet Builder CD-ROM, Reference & Practice Book, KY CATS Prep CD-ROM

*Free, 1 per School:* Free Access to Glencoe Math Website

*Choice of 1 per Teacher:* State Test Prep Answer Key, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only:* State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

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#### Research Data

*Contemporary Mathematics in Context* Evaluation Results summarizes results from evaluation studies conducted during the field testing of CPMP Courses 1-4. Mathematical Achievement on Standardized Tests focuses on standardized achievement test results aggregated across the 33 field test schools who were on a regular two-semester schedule. Assessments of Students' Mathematical Performance focuses on performance assessments of student achievement aggregated across the 33 field test schools who were on a regular two-semester schedule. On project developed open-ended posttests of mainly algebraic and geometric content. An Emerging Profile of the Mathematical Achievement of Students in the Core-Plus Mathematics Project Presents achievement results reported for the three-year Core-Plus field test (1994-97).

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u><a href="http://www.glencoe.com">http://www.glencoe.com</a></u>
<b>Title:</b>	<u>Contemporary Mathematics in Context, Course 4: A Unified Approach, Part A</u>		
<b>Author:</b>	<u>Hirsch, et al</u>	<b>Copyright:</b>	<u>2001</u>
<b>ISBN:</b>	<u>1570398852</u>	<b>Course/Content Area:</b>	<u>Integrated Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>10.0 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>26.49</u>

**FEATURES\***

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**Content**

*Contemporary Mathematics in Context* contains unified content. Each year of the curriculum advances student understanding of mathematics along interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. These mathematical strands are developed in coherent, focused units that are connected by fundamental ideas such as function, symmetry, and data analysis; and by mathematical habits of mind such as visual thinking, recursive thinking and searching for and explaining patterns. Technology is an integral part of this program with complete instructions and usage for graphing calculators

**Student Experiences**

Differences in students' performance and interest can be accommodated by the depth and level of abstraction to which core topics are pursued, by the nature and degree of difficulty of applications and by opportunities for student choice on homework tasks and projects. Instructional materials promote active learning and teaching centered around collaborative small-group investigations of problem situations followed by teacher-led whole class summarizing activities.

**Assessment**

As students pursue the investigations that comprise the curriculum, the teacher is able to informally assess student performance in terms of process, content, and disposition. Group Assessment occurs at the end of each investigation. *Contemporary Mathematics in Context* also provides an assessment package that contains: end-of-lesson quizzes, end-of-unit assessments, in-class exams, take-home assessment tasks, extended projects, assessment tasks for semester and final exams. The assessments for Courses 1, 2, and 3 are also available on CD-ROMs so that teachers can customize quizzes and exams. In addition, students organize what they have learned for their own review and reference in teacher-prompted Math Toolkits. Many teachers also have their students write about the class and their learning in personal journals.



## **Program Description/Textbook or Print Instructional Material**

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### **Contemporary Mathematics in Context, Course 4: A Unified Approach, Part A ©2001 (continued)**

#### **Organization**

*Contemporary Mathematics in Context* is a four-year curriculum that replaces the traditional Algebra-Geometry-Advanced Algebra/Trigonometry-Precalculus sequence. Each course features interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The first three courses in the series provide a common core of broadly useful mathematics for all students. They were developed to prepare students for success in college, in careers, and in daily life in contemporary society. Course 4 continues the preparation of students for college mathematics. It formalizes and extends important mathematical ideas drawn from all four strands, with a focus on the mathematics needed to be successful in college mathematics and statistics courses. Each year contains two student texts, Part A and Part B to accommodate both standard and block scheduling.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, Calculator Software & Guide, KY CATS Prep CD-ROM

*Free, 1 per School:* Free Access to Glencoe Math Website

*Choice of 1 per Teacher:* State Test Prep Answer Key, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only:* State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

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#### **Research Data**

*Contemporary Mathematics in Context* Evaluation Results summarizes results from evaluation studies conducted during the field testing of CPMP Courses 1-4. Mathematical Achievement on Standardized Tests focuses on standardized achievement test results aggregated across the 33 field test schools who were on a regular two-semester schedule. Assessments of Students' Mathematical Performance focuses on performance assessments of student achievement aggregated across the 33 field test schools who were on a regular two-semester schedule. On project developed open-ended posttests of mainly algebraic and geometric content. An Emerging Profile of the Mathematical Achievement of Students in the Core-Plus Mathematics Project Presents achievement results reported for the three-year Core-Plus field test (1994-97).

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u><a href="http://www.glencoe.com">http://www.glencoe.com</a></u>
<b>Title:</b>	<u>Contemporary Mathematics in Context, Course 4: A Unified Approach, Part B</u>		
<b>Author:</b>	<u>Hirsch, et al</u>	<b>Copyright:</b>	<u>2001</u>
<b>ISBN:</b>	<u>1570398860</u>	<b>Course/Content Area:</b>	<u>Integrated Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>10.0 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>26.49</u>

**FEATURES\***

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**Content**

*Contemporary Mathematics in Context* contains unified content. Each year of the curriculum advances student understanding of mathematics along interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. These mathematical strands are developed in coherent, focused units that are connected by fundamental ideas such as function, symmetry, and data analysis; and by mathematical habits of mind such as visual thinking, recursive thinking and searching for and explaining patterns. Technology is an integral part of this program with complete instructions and usage for graphing calculators

**Student Experiences**

Differences in students' performance and interest can be accommodated by the depth and level of abstraction to which core topics are pursued, by the nature and degree of difficulty of applications and by opportunities for student choice on homework tasks and projects. Instructional materials promote active learning and teaching centered around collaborative small-group investigations of problem situations followed by teacher-led whole class summarizing activities.

**Assessment**

As students pursue the investigations that comprise the curriculum, the teacher is able to informally assess student performance in terms of process, content, and disposition. Group Assessment occurs at the end of each investigation. *Contemporary Mathematics in Context* also provides an assessment package that contains: end-of-lesson quizzes, end-of-unit assessments, in-class exams, take-home assessment tasks, extended projects, assessment tasks for semester and final exams. The assessments for Courses 1, 2, and 3 are also available on CD-ROMs so that teachers can customize quizzes and exams. In addition, students organize what they have learned for their own review and reference in teacher-prompted Math Toolkits. Many teachers also have their students write about the class and their learning in personal journals.

## **Program Description/Textbook or Print Instructional Material**

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### **Contemporary Mathematics in Context, Course 4: A Unified Approach, Part B ©2001 (continued)**

#### **Organization**

*Contemporary Mathematics in Context* is a four-year curriculum that replaces the traditional Algebra-Geometry-Advanced Algebra/Trigonometry-Precalculus sequence. Each course features interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The first three courses in the series provide a common core of broadly useful mathematics for all students. They were developed to prepare students for success in college, in careers, and in daily life in contemporary society. Course 4 continues the preparation of students for college mathematics. It formalizes and extends important mathematical ideas drawn from all four strands, with a focus on the mathematics needed to be successful in college mathematics and statistics courses. Each year contains two student texts, Part A and Part B to accommodate both standard and block scheduling.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Package, Calculator Software & Guide, KY CATS Prep CD-ROM

*Free, 1 per School:* Free Access to Glencoe Math Website

*Choice of 1 per Teacher:* State Test Prep Answer Key, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only:* State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### **Research Data**

*Contemporary Mathematics in Context* Evaluation Results summarizes results from evaluation studies conducted during the field testing of CPMP Courses 1-4. Mathematical Achievement on Standardized Tests focuses on standardized achievement test results aggregated across the 33 field test schools who were on a regular two-semester schedule. Assessments of Students' Mathematical Performance focuses on performance assessments of student achievement aggregated across the 33 field test schools who were on a regular two-semester schedule. On project developed open-ended posttests of mainly algebraic and geometric content. An Emerging Profile of the Mathematical Achievement of Students in the Core-Plus Mathematics Project Presents achievement results reported for the three-year Core-Plus field test (1994-97).

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u>http://www.glencoe.com</u>
<b>Title:</b>	<u>MathMatters, Book 1</u>		
<b>Author:</b>	<u>Lynch, Olmstead</u>	<b>Copyright:</b>	<u>2001</u>
<b>ISBN:</b>	<u>0538686596</u>	<b>Course/Content Area:</b>	<u>Integrated Math &amp; Applied Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>6.9 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>50.97</u>

**FEATURES\***

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

**Content**

*Math Matters* is a three-year high school curriculum that includes a complete algebra 1 and geometry curriculum across three grade levels. Math Matters also includes probability and statistics, data, measurement and logic

**Student Experiences**

A real-world theme introduces each chapter and is highlighted in the data activities, chapter investigations, application problems, and photographs. These connections to the theme reinforce the importance of mathematics in everyday life. Data Files provide students with real-world statistics that teach students to solve problems by reading data from a variety of visual displays. Students learn how a knowledge of mathematics is instrumental in a broad spectrum of careers. Through engaging activities students will enhance their critical thinking skills and learn to evaluate the meaning of statistics that are presented to them through various media sources.

**Assessment**

Standard and alternative assessment options give both teachers and students the opportunity to evaluate students' progress in learning mathematical concepts.

Each chapter contains: Warm-Ups, Lesson reviews and practice for skills, Chapter Review, Mid-Chapter Quizzes, Cumulative Reviews, Chapter Assessments, Alternative Assessment, Re-teaching Resource, Extra Practice, Enrichment and Chapter Investigations

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## Program Description/Textbook or Print Instructional Material

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### MathMatters, Book 1 ©2001 (continued)

#### **Organization**

*Math Matters* contains 11 chapters at each grade level. Each chapter begins with a review of basic math skills students will need to be successful in the chapter along with the goals and applications of the lesson being clearly stated for students. A "real world theme connects and reinforces mathematics in everyday life. Data files provide students with real world statistics and the Mathworks section features mathematics at work in various professions. There is a built in review lesson after every two lessons and assessments are built into each lesson as well as mid-chapter and chapter reviews.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Box, KY CATS Prep CD-ROM, Teaching Math with Foldables by Dinah Zike

*Choice of 1 per Teacher:* State Test Prep Answer Key, Terra Nova Practice & Sample Test Workbook TE, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment TE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment TE

*Choice of 1 per Student Edition Purchased, 1st year of adoption only:* State Test Prep Workbook High School, Terra Nova Practice & Sample Test Workbook, KY CATS Math Practice & Sample Test Wkbk For Gr 8 Assessment SE, KY CATS Math Practice & Sample Test Wkbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### **Research Data**

During the development of *Math Matters* extensive research, testing and piloting of the program was conducted to ensure the validity of the instructional approach. This research included: development discussions and planning with classroom teachers, development discussions and planning with experts in the content area, and on-site classroom observations. All assessment instruments for Math Matters evaluate the learning outcomes, or objectives, and the variety of assessment instruments ensure that all learner outcomes will be measured..

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u>http://www.glencoe.com</u>
<b>Title:</b>	<u>MathMatters, Book 2</u>		
<b>Author:</b>	<u>Lynch, Olmstead</u>	<b>Copyright:</b>	<u>2001</u>
<b>ISBN:</b>	<u>0538686618</u>	<b>Course/Content Area:</b>	<u>Integrated Math &amp; Applied Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>7.2 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>50.97</u>

**FEATURES\***

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

**Content**

*Math Matters* is a three-year high school curriculum that includes a complete algebra 1 and geometry curriculum across three grade levels. Math Matters also includes probability and statistics, data, measurement and logic

**Student Experiences**

A real-world theme introduces each chapter and is highlighted in the data activities, chapter investigations, application problems, and photographs. These connections to the theme reinforce the importance of mathematics in everyday life. Data Files provide students with real-world statistics that teach students to solve problems by reading data from a variety of visual displays. Students learn how a knowledge of mathematics is instrumental in a broad spectrum of careers. Through engaging activities students will enhance their critical thinking skills and learn to evaluate the meaning of statistics that are presented to them through various media sources.

**Assessment**

Standard and alternative assessment options give both teachers and students the opportunity to evaluate students' progress in learning mathematical concepts.

Each chapter contains: Warm-Ups, Lesson reviews and practice for skills, Chapter Review, Mid-Chapter Quizzes, Cumulative Reviews, Chapter Assessments, Alternative Assessment, Re-teaching Resource, Extra Practice, Enrichment and Chapter Investigations

## Program Description/Textbook or Print Instructional Material

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### MathMatters, Book 2 ©2001 (continued)

#### **Organization**

*Math Matters* contains 11 chapters at each grade level. Each chapter begins with a review of basic math skills students will need to be successful in the chapter along with the goals and applications of the lesson being clearly stated for students. A "real world theme connects and reinforces mathematics in everyday life. Data files provide students with real world statistics and the Mathworks section features mathematics at work in various professions. There is a built in review lesson after every two lessons and assessments are built into each lesson as well as mid-chapter and chapter reviews.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Box, KY CATS Prep CD-ROM, Teaching Math with Foldables by Dinah Zike, *Choice of 1 per Teacher:* State Test Prep Answer Key, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment TE, *Choice of 1 per Student Edition Purchased, 1st year of adoption only:* State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

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#### **Research Data**

During the development of *Math Matters* extensive research, testing and piloting of the program was conducted to ensure the validity of the instructional approach. This research included: development discussions and planning with classroom teachers, development discussions and planning with experts in the content area, and on-site classroom observations. All assessment instruments for Math Matters evaluate the learning outcomes, or objectives, and the variety of assessment instruments ensure that all learner outcomes will be measured..

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**Program Description/Textbook or Print Instructional Material**

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<b>Vendor:</b>	<u>Glencoe/McGraw-Hill</u>	<b>Web Address:</b>	<u>http://www.glencoe.com</u>
<b>Title:</b>	<u>MathMatters, Book 3</u>		
<b>Author:</b>	<u>Lynch, Olmstead</u>	<b>Copyright:</b>	<u>2001</u>
<b>ISBN:</b>	<u>0538686634</u>	<b>Course/Content Area:</b>	<u>Integrated Math &amp; Applied Math</u>
<b>Intended Grade or Level:</b>	<u>9-12</u>	<b>Readability Level:</b>	<u>8.4 Dale Chall</u>
<b>List Price:</b>	<u>N/A</u>	<b>Lowest Wholesale Price:</b>	<u>50.97</u>

**FEATURES\***

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**Content**

*Math Matters* is a three-year high school curriculum that includes a complete algebra 1 and geometry curriculum across three grade levels. Math Matters also includes probability and statistics, data, measurement and logic

**Student Experiences**

A real-world theme introduces each chapter and is highlighted in the data activities, chapter investigations, application problems, and photographs. These connections to the theme reinforce the importance of mathematics in everyday life. Data Files provide students with real-world statistics that teach students to solve problems by reading data from a variety of visual displays. Students learn how a knowledge of mathematics is instrumental in a broad spectrum of careers. Through engaging activities students will enhance their critical thinking skills and learn to evaluate the meaning of statistics that are presented to them through various media sources.

**Assessment**

Standard and alternative assessment options give both teachers and students the opportunity to evaluate students' progress in learning mathematical concepts.

Each chapter contains: Warm-Ups, Lesson reviews and practice for skills, Chapter Review, Mid-Chapter Quizzes, Cumulative Reviews, Chapter Assessments, Alternative Assessment, Re-teaching Resource, Extra Practice, Enrichment and Chapter Investigations



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## Program Description/Textbook or Print Instructional Material

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### MathMatters, Book 3 ©2001 (continued)

#### **Organization**

*Math Matters* contains 11 chapters at each grade level. Each chapter begins with a review of basic math skills students will need to be successful in the chapter along with the goals and applications of the lesson being clearly stated for students. A "real world theme connects and reinforces mathematics in everyday life. Data files provide students with real world statistics and the Mathworks section features mathematics at work in various professions. There is a built in review lesson after every two lessons and assessments are built into each lesson as well as mid-chapter and chapter reviews.

#### **Resource Materials**

- **Gratis Items To Be Provided And Under What Conditions**

*Free, 1 per Teacher:* Teacher Resource Box, KY CATS Prep CD-ROM, Teaching Math with Foldables by Dinah Zike, *Choice of 1 per Teacher:* State Test Prep Answer Key, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment TE, *Choice of 1 per Student Edition Purchased, 1st year of adoption only:* State Test Prep Workbook High School, KY CATS Math Practice & Sample Test Wbk For Gr 11 Assessment SE

- **Available Ancillary Materials**

All Items Listed Above As Gratis Items

### **RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\***

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#### **Research Data**

During the development of *Math Matters* extensive research, testing and piloting of the program was conducted to ensure the validity of the instructional approach. This research included: development discussions and planning with classroom teachers, development discussions and planning with experts in the content area, and on-site classroom observations. All assessment instruments for Math Matters evaluate the learning outcomes, or objectives, and the variety of assessment instruments ensure that all learner outcomes will be measured.

### Program Description/Textbook or Print Instructional Material

Vendor:	Glencoe/McGraw-Hill	Web Address:	<a href="http://www.glencoe.com">http://www.glencoe.com</a>
Title:	Calculus (2/E)		
Author:	Smith, Minton	Copyright:	2002
ISBN:	0072509538	Course/Content Area:	AP Calculus
Intended Grade or Level:	AP	Readability Level:	At Grade Level
List Price:	N/A	Lowest Wholesale Price:	97.00

#### FEATURES\*

**\*DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Content

This book represents an updated approach to the traditional topics of calculus. It blends an appropriate level of informality and mathematical rigor with an honest discussion of difficulties students commonly face in studying calculus. The authors, Robert T. Smith and Roland B. Minton, believe that, while the calculus curriculum has been in need of reform, things that already work should not be cast aside. But many useful notions have emerged from calculus reform, and these have been incorporated into this text, such as present ideas according to “the Rule of Four”: graphically, numerically, algebraically and verbally.

#### Student Experiences

The following comments are excerpted from a student’s comparison (from El Paso Community College) of Smith/Minton’s *Calculus* with Anton’s textbook.

**Explanation of the derivative:** “the explanation in Smith/Minton ... ‘walks’ the student through actually finding the slope of the secant line as the two points become closer together.” Likewise the accompanying visual example in Smith/Minton “gives more points of Q, which is a better visual aid. Smith/Minton goes on to give examples of finding the tangent line using the definition.” Similar coverage does not appear until chapter 2 in the Anton text.

**Introducing the rules of differentiation:** Smith/Minton gives “a nice theorem that rolls into the power rule,” as well as “a general power rule which can be used when the function is raised to any power, positive or negative.” In this chapter, the Smith/Minton text also covers implicit differentiation, related rates, and the mean-value theorem – this last, which Anton does not cover until chapter 6 (with applications of the derivative. “Smith/Minton introduces the theorem in order to give the student a useful and valuable tool that can be used along the way.”

**Writing style:** “Smith/Minton combines into one smoothly written chapter” what the Anton calculus book takes several chapters to cover. “The way in which it is arranged flows smoothly and the student is better able to follow the concepts when all the information that is needed is given.”

**Explanation of integration:** Smith/Minton “gives the student examples of what to do when they are stuck on an integral.” It has engaging examples and “an interesting exercise set [with] two integrals that look almost identical,” that asks the student to evaluate which one can be solved and which one cannot.

**Solving problems:** “Smith/Minton brings up the point that there can be more than one right answer when finding the antiderivative and both are correct if they are equivalent. For the student, it is good to know that there is more than one correct answer to a given problem.” Light bulb icons in the margin flag these important insights.

**Multivariable calculus topics:** “Three-dimensional space is hard for some students to grasp or see. The graphics that are used in Smith/Minton ...help the student to see how to arrive at the desired location [by] the use of different colored plans and shading of the axis.” Depiction of the axis itself for most graphics in the book gives the student a consistent visual reference point in evaluating graphs and solids.

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## Program Description/Textbook or Print Instructional Material

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### Calculus (2/E) © (continued)

#### Assessment

A computerized test bank of questions and problems is available for instructors on the web site to accompany this text.

A set of algorithmically generated exercises for each chapter and section in the book is also available on the book's web site.

#### Organization

Smith & Minton's *Calculus* is organized according to accepted conventions of teaching the calculus. However, much attention has been devoted to the contemporary approach of presenting concepts "multidimensionally" – that is, graphically, numerically, algebraically and verbally. The authors also explain ways to optimize the use of technology (graphing calculators or computer-algebra software, where appropriate) in teaching and learning calculus.

Chapter 0: Preliminaries

Chapter 1: Limits & Continuity

Chapter 2: Differentiation: Algebraic, Trigonometric, Exponential & Logarithmic Functions

Chapter 3: Applications of Differentiation

Chapter 4: Integration

Chapter 5: Applications of the Definite Integral

Chapter 6: Exponentials, Logarithms and Other Transcendental Functions

Chapter 7: Integration Techniques

Chapter 8: Infinite Series

Chapter 9: Parametric Equations and Polar Coordinates

Chapter 10: Vectors and the Geometry of Space

Chapter 11: Vector-Valued Functions

Chapter 12: Functions of Several Variables and Differentiation

Chapter 13: Integrals

Chapter 14: Vector Calculus

#### Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

*Free, I per Teacher:* Student Solutions Manual, Instructor's Resource Manual

- **Available Ancillary Materials**

### RESEARCH DATA/EVIDENCE OF EFFECTIVENESS\*\*

**\*\*DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, or the Kentucky Department of Education.

#### Research Data

Throughout its premiere and second editions, this text has had no formal research data amassed. However, anecdotal data is available upon request.